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Ada Compiler Performance Test Suite and Test Evaluation Capability (ACPS) User's Guide



Prepared by

R. E. KAYFES Information Processing Division Engineering Group The Aerospace Corporation El Segundo, CA 90245-4691

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SPACE SYSTEMS DIVISION AIR FORCE SYSTEMS COMMAND Los Angeles Air Force Base P.O. Box 92960 Los Angeles, CA 90009-2960

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A. E. Stevens, Lt. Col., USAF SSD/ALR

M. Lubofsky

Senior Engineering Specialist Computer Resources Management

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EXECUTIVE SUMMARY

The Ada Compiler Performance Test Suite and Test Evaluation Capability (ACPS) is a collection of programs designed to assist users in evaluating the performance of run-time environments provided by Ada compilation systems. A unique feature of the ACPS is that it provides an extensive set of JOVIAL and FORTRAN benchmarks to aid assessment of the likely performance impact of transitioning programs from JOVIAL or FORTRAN to Ada. The ACPS test suite includes programs to test both single language features (e.g., type conversion) and multiple language features (e.g., the Whetstone benchmark) written in Ada, JOVIAL, and FORTRAN. The suite also provides software to gather and report performance statistics in a format common to all three test languages.

The Ada programs of the ACPS are written in standard Ada (ANSI/MIL-STD-1815A), were designed to be easily rehostable, and are not restricted to a particular machine environment. The user's guide supplied with the ACPS describes the steps necessary to rehost the ACPS and identifies the types of source code modifications that may be necessary when applying the ACPS to a different compiler.

The ACPS also provides tools to display the results of test executions, and to automatically compare corresponding results from Ada, JOVIAL, and FORTRAN test executions. Tool output includes compile-time and run time statistics such as elapsed time, CPU time, code and data sizes, virtual and physical memory usage, etc., in order to facilitate complete and objective comparisons.

The ACPS is available on tape in either Digital Equipment Corporation (DEC) VAX/VMS BACKUP format or in ANSI tape format for users wishing to rehost the ACPS. The user should have a working understanding of the host operating system and command language if the ACPS is to be installed on a system other than DEC VAX/VMS.

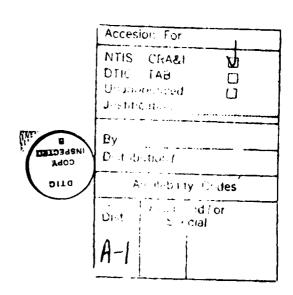
The ACPS is primarily intended for users who are familiar with Ada and who wish to get detailed information on the run-time efficiency of an Ada implementation for a particular application. The ACPS is not intended to be the only instrument for measuring the efficiency of Ada run-time environments. Performance issues and selection criteria for Ada run-time environments must be developed in accordance with the requirements of specific applications. The primary benefit of using the ACPS will be in its support of applications planning. It can be used to demonstrate which features of Ada are inefficiently implemented through comparison of equivalent Ada, JOVIAL, and FORTRAN test program executions. This information can be used in several ways. can be used as justification for avoiding certain language features or processing options. It can focus attention to those areas of the compiler that must be improved and provide a mechanism for measuring improvements or degradations in run-time performance as a compiler implementation evolves. The ACPS can also be used to assist determination as to whether existing JOVIAL or FORTRAN modules should be converted to Ada by showing the probable performance impact of straightforward translation to Ada as would likely be obtained through use of a language translation tool.

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Program Element 64740F is the Air Force engineering development program to develop and transfer into active use the technology, tools, and techniques needed to cope with the explosive growth in Air Force systems that use computer resources. The goals of the program are to: (a) provide for the transition of computer system developments from laboratories, industry, and academia to Air Force systems; (b) develop and apply software acquisition management techniques to reduce life-cycle costs; (c) provide improved software design tools; (d) address the various problems associated with computer security; (e) develop advanced software engineering tools, techniques, and systems; (f) support the implementation of high-order languages (e.g., Ada); (g) address human engineering for computer systems; and (h) develop and apply computer simulation techniques for the acquisition process.

The Ada Compiler Performance Test Suite and Test Evaluation Capability was developed at The Aerospace Corporation by the following team of software engineers: Allen R. Adams, Kathleen M. Bruckert, Richard E. Kayfes, Michael J. McLaughlin, and Beverly L. Parmelee. Team members involved in development of each software module are noted by initials in commentary prologue in each module.



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1. INTRODUCTION

The Ada Compiler Performance Test Suite and Test Evaluation Capability (ACPS) is a set of programs designed to assist users in evaluating the performance of run-time environments provided by Ada compilation systems. The ACPS is primarily composed of test cases designed and coded at The Aerospace Corporation. The ACPS has also been augmented by public domain benchmarks where appropriate. These tests have been modified to run in the ACPS test environment and annotated to identify their origin. The ACPS tests were designed to execute within the framework of a test evaluation system consisting of test coding techniques, test result reporting conventions, and tools for automated test result comparisons. The VAX/VMS version of the ACPS test evaluation system is delivered on tape in VAX/VMS BACKUP format. A rehostable version of the ACPS is delivered in ANSI tape format.

The purpose of this document is to describe how to (a) install the ACPS test suite, (b) set up the ACPS test environment, (c) execute the tests, and (d) automatically compare the test results for executions on different compilers or for executions on the same compiler using different compilation options. In addition, this document provides guidance on how to make use of the ACPS test results in evaluation of Ada run-time environments.

The primary objective of the ACPS test suite is to provide information useful to the evaluation of Ada run-time environments for real-time space applications. In our view, an Ada run-time environment is composed of the entire hardware/software configuration that permits execution of Ada-compiled programs. Figure 1-1 depicts the components of an Ada run-time environment. Each layer in the figure is implemented by features or capabilities provided by lower layers. The Ada run-time system implements features of Ada programs that cannot be or are not placed directly in the compiled program. The target operating system, if present, provides capabilities beyond the scope of the Ada language and may also be required to assist implementation of some of the features of Ada such as tasking and input/output. The functionality of an Ada run-time environment is largely dependent on the presence or absence of an underlying target operating system. It is highly likely, for example, that stand-alone Ada run-time environments for the Digital Equipment Corporation (DEC) VAX computer will provide significantly fewer capabilities to Ada programmers than Ada run-time environments for the VAX, which permits interface to the VMS operating system. It is, therefore, important to realize that the ACPS only applies to features appearing in the Ada Language Reference Manual (ANSI/MIL-STD-1815A-1983). It includes tests of mandatory as well as compiler-dependent features (not including LOW_LEVEL_IO) of Ada. It does not, however, include tests of special packages provided by an Ada compiler or of capabilities provided by a target operating system. As a result, the ACPS does not address many of the capabilities of an Ada run-time environment that may be extensively used in a real-time application and that as a result can have a significant impact on performance.

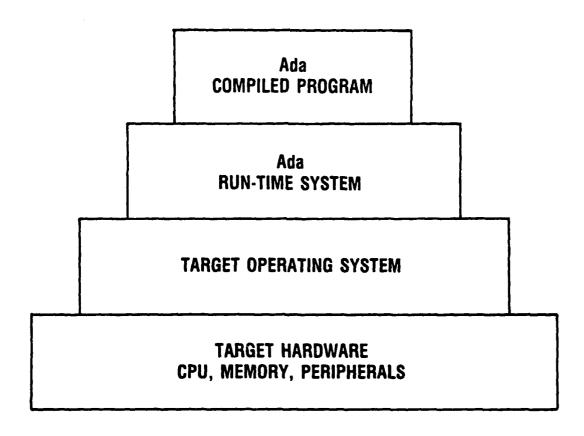


Figure 1-1. Ada Run-Time Environment Components

The forthcoming sections of this document describe the major components of the overall ACPS system and their application within the ACPS capability. Section 2 details the contents of ACPS, describing the seven types of ACPS tests and their interrelationships within the system. Section 3 discusses some of the test measurement concerns that were considered in development of To ensure that test results gathered and reported are accurate, repeatable, and well-focused, test measurement and coding techniques were developed and are discussed in Section 4. This section also describes sample test templates that illustrate the various forms of ACPS tests, and provides necessary data to users wishing to add more tests to the ACPS test roster. The common language test environment architecture is described in Section 5. To facilitate development of JOVIAL and FORTRAN programs from Ada programs, a set of naming conventions was devised and is detailed in Section 6. Section 7 describes the actions necessary to rehost the ACPS and also discusses the types of machine- and compiler-dependent modifications that may be necessary when rehosting the ACPS or applying the system to a different compiler. Section 8 describes methods of using the ACPS in evaluating the performance impact of entire Ada run-time environments.

The appendices are comprised of additional descriptions of key ACPS components and their functions. Appendices A and B describe the format and content of ACPS delivery tapes. Appendix C discusses methods of installing the DEC VAX/VMS version of the ACPS and provides lists of command procedures and other information useful when applying the ACPS to other compilers hosted on VAX/VMS.

To facilitate rehosting of the ACPS, almost all use of machine- and compiler-dependent language features is isolated to the test support software modules. Appendix D lists the package specifications of the Ada test support software packages. To ease comparison of test execution results, a common language report format was used and tools were developed to automatically compare the compile-time and run-time performance of Ada, JOVIAL, and FORTRAN test executions. Appendix E discusses how to use the DEC VAX/VMS version of these tools and describes with examples the format of all tool input/output files.

There are three classes of ACPS tests: (1) those unique to Ada, (2) those unique to both Ada and JOVIAL, and (3) those that can be represented in Ada, JOVIAL, and FORTRAN. To assist users in assessing the performance impact of transitioning JOVIAL and FORTRAN applications to Ada, Appendix F describes the function of each Ada test and indicates for each test whether JOVIAL and FORTRAN tests are provided. The tables in Appendix G contain Ada test program and source code file data broken down by Ada types A, C, E, S, and T. The latter tables G-6 and G-7 contain test program and source code data for JOVIAL and FORTRAN, respectively.

1.1 TEST SUITE

The core of the ACPS is the test suite. The test suite is a collection of programs each written to test a specific feature of Ada, such as the case statement or the record aggregate. For each test, the elapse time and memory usage is recorded for both the compilation and linkage stage and the execution

stage. Additionally, the support software can be customized to collect other data that is significant for the given configuration, such as the page fault rate or buffered input/output count.

To ease the conversion to new configurations, the test suite software is divided into two groups: Test Software and Test Support Software (TSS). The Test Software simply consists of the individual programs that use the language features. This group is meant to be machine and operating system-independent. The TSS is divided into the Operating System Specific Test Support Software (OTSS) and the Language Specific Test Support Software (LTSS). Figures 1-2, 1-3, and 1-4 show how the various groups merge to generate the test programs.

Five versions of the Ada test suite exist. The first is the baseline suite. The second is compiled without constraint checking, which should make the code faster and smaller. The third suite includes exception handlers in each procedure. The fourth and fifth versions are compiled with the OPTIMIZE pragma set memory optimization and speed optimization, respectively.

When taken collectively, the data for the five suites provide a thorough and detailed performance profile. This profile can be used to estimate the performance of an algorithm on a given configuration or to assist in optimizing a program. A small set of multi-featured benchmarks could not give this level of detail nor this degree of completeness. However, to allow comparison with published benchmark results, two public domain benchmarks, the Dhrystone and Whetstone tests, have been added.

The compilation and linkage data give an indication of how heavily the compiler uses the configuration's resources and the suitability of the compiler for software development. A compiler that produces exceptionally fast executable code might be too much of a burden on the system to be used constantly. In this case, a second compiler might be used during the earlier phases of development.

Since Ada is meant to replace the other languages currently in use by DoD, it was decided that the ACPS should include JOVIAL and FORTRAN versions of the test suite. JOVIAL J73 was chosen because it was the Air Force's previous standard high-order language (HOL) for embedded systems. FORTRAN, in turn, has many mature compilers that can be used for comparison of efficiency and performance.

The OTSS provides a common access path to the system data such as the system clock and the current memory usage. Its routines are shared between all of the test suites used on a particular operating system and must be provided in object code form before the tests can be run. Usually, the OTSS software will be FORTRAN or assembly language subroutines.

The LTSS is a set of procedures and data definitions that permit the test software to remain machine-independent by hiding the details of OTSS, such as what data are being collected and how the timing is being done. In addition, compiler-dependent features are isolated in the LTSS. The Ada versions of the LTSS define the default floating point and integer data types. The majority of the global variables used in the tests are defined in the LTSS files.

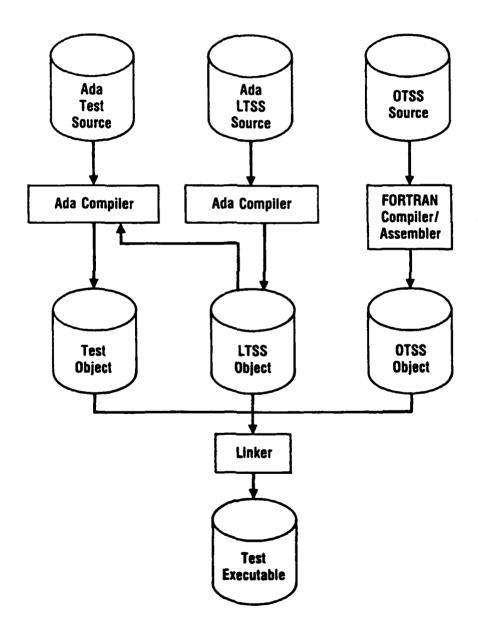


Figure 1-2. Ada Test Suite Generation

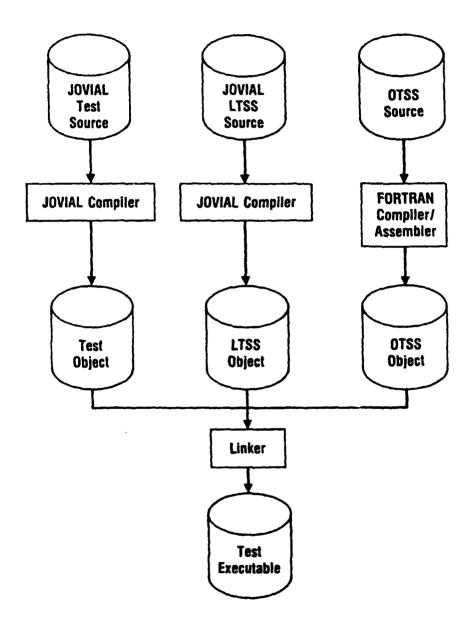


Figure 1-3. JOVIAL Test Suite Generation

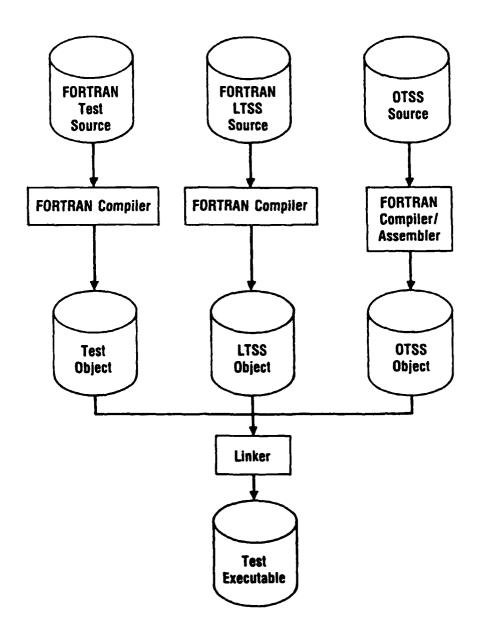


Figure 1-4. FORTRAN Test Suite Generation

1.2 TEST EVALUATION CAPABILITY

The base Ada test suite is comprised of 459 programs. Thus, it was felt that an automated method was needed to process the test suite and the resulting data. The Test Evaluation Capability (TEC) is a set of procedures written in the operating system's job control language and FORTRAN programs written to handle these functions. The TEC job control language procedures, called scripts, are divided into those that control the compilation and linkage and those that execute the test programs. The two FORTRAN programs included in the TEC take the raw data and produce formatted data files and a formatted comparison file. One program compares two compilation and linkage results, and the other program compares execution results.

2. TEST CATEGORIES

The ACPS consists of seven types of tests whose execution results are to be compared:

- Ada tests
- Ada tests with constraint checks suppressed
- Ada tests with an exception handler in every procedure
- Ada tests with space optimization pragmas
- Ada tests with time optimization pragmas
- JOVIAL J73 tests
- FORTRAN 77 tests

Almost all Ada tests use numeric data types that are defined in separate test support software packages. Two versions of these packages are supplied: one with numeric types defined with range constraints and one with numeric types defined without range constraints. All Ada tests should be executed with both packages.

Each type of test is divided into four categories: single language feature tests, multiple language feature tests, multiple task loading tests, and compiler optimization tests.

The ACPS only tests features of Ada that are described in the ANSI/MIL-STD-1815A reference manual (LRM) for Ada. The ACPS does not include tests of additional compiler-dependent pragmas or packages that are not described in the LRM. (Use of the DEC VAX Ada pragma TIME_SLICE and the package MATH_LIB are the only exceptions.) The tests are designed to measure only the performance of code generated by Ada compilers. They are not designed to measure the capacities of compilers and their associated run-time systems.

Single language feature tests, as their name implies, exercise specific language features of Ada (e.g., data type conversion). If other language features are needed in order to construct a test of this type, then an additional test is developed to account for the overhead introduced. These tests are useful in determining which features of Ada are implemented inefficiently and consequently which features of Ada could have the greatest impact on application performance.

Multiple language feature tests are designed to test a composite of language features to either perform an application-specific algorithm (e.g., Fourier transform) or to represent the frequency of language feature use for types of applications (e.g., the Whetstone and Dhrystone tests).

Multiple task loading tests are designed to stress the task scheduling, input/output and memory management capabilities of Ada implementations. Three types of tasks are used: CPU intensive, CPU and memory intensive, and input/output intensive. Task loading tests consist of a varying number of tasks of identical type (e.g., input/output intensive). They are differentiated by the type of the task and by the number of tasks executing.

Compiler optimization tests are designed to test well-known, machine-independent, code-generation optimization algorithms used in compilers (e.g., constant folding). Most of the tests are composed of two parts: a version coded to test a particular type of compiler optimization technique and a functionally equivalent hand-optimized version. Separate test results are generated for each version of the test and for the comparison of the two versions.

The ACPS is composed of single language feature tests rather than multilanguage or application specific tests. This bias is due to the developer's perception that it is very difficult to draw conclusions from performance data obtained from execution of any multi-language feature tests. Unless the execution time of each statement of an application is known, one cannot understand the performance results obtained, cannot recommend changes in coding techniques to improve performance, and cannot predict the performance of other applications which use similar language features. By containing a comprehensive set of single language feature tests, the ACPS can supply sufficient detailed performance data to (a) permit informed interpretation of application test execution results and (b) provide a basis for recommendation of remedial action to the compiler vendor or to the application coder in order to improve application performance.

3. TEST MEASUREMENT CONCERNS

This section discusses the test measurement concerns that drove selection of the test measurement techniques described in Section 4 and Appendix C.

The ACPS was designed for use in evaluating the efficiency of Ada compilers for ground applications as well as spaceborne applications. The ACPS and its support software were created on a host and target machine that used a general purpose operating system (DEC VAX/VMS) which supports both real-time and nonreal-time applications. As a result, some of the test measurement techniques employed were selected due only to the fact that a general purpose target operating system would be used.

Test measurement concerns that were addressed in development of the ACPS are as follows:

a. Source of test data.

There are several aspects to test performance: test execution time (elapsed time, idle-time, run-time system overhead), memory usage (physical, virtual, compiled code, data, run-time system, page-fault rate), input/output operations (both intended and unintended) and size of input/output files. The only compiler-independent performance measurements that can be made directly within the Ada programming language are:

- Size of compiled code
- Size of data objects
- Number of input/output statements executed
- Number of times the test code is executed
- Elapsed time of a test

The other performance statistics (e.g., physical memory usage) must be obtained in a machine and run-time system-dependent manner.

b. How to take measurements.

Performance data can be obtained both from within and outside the executing program. Measurements taken outside the executing program are made before and after the program executes and include the time to load the program into memory as well as the time to remove the program from memory. For real-time applications, one is only concerned with the execution characteristics of a test, since program loading and initialization operations are performed before real-time processing begins.

There are three approaches that can be used to measure the execution time of test code from within the test program:

- 1. Take a single measurement before and after a test executes.
- 2. Enclose the test code in a loop and take measurements for each iteration through the loop and record the maximum, median, and minimum execution times.
- 3. Enclose the test code in a loop and take a single measurement for multiple iterations through the test code.

The first two approaches assume existence of a clock with greater resolution than the time to execute the test code. For general-purpose operating systems, the Ada clock resolution can be as high as 1 sec. For VAX/VMS, the operating system clock resolution is 10 ms. Since test code execution times were expected to be as low as 20 μ s, the third approach was used for ACPS tests.

The second approach was used in special tests (e.g., time to wake up from a DELAY statement) that cannot be timed using a single measurement for a multiple iteration test loop. For DEC VAX/VMS, this approach required development of a machine-dependent routine to compute microsecond level elapsed times. The routine used privileged code and had to be installed in the operating system.

c. How to isolate measurements to the code tested.

It is important ensure that test measurements can be isolated to the test code itself. Any overhead introduced by the measurement process should be separately measurable and taken into account. It should also be possible to separate the time to load the test code and data into memory from the time to execute the test code. To the extent possible, execution of the test measurement code should not be affected by the test code. Conversely, the test code itself should not be affected by the test measurement code. Since test code is executed within test measurement loops, one has to make sure that compiler optimization techniques do not cause removal of test code from the test measurement loops. In addition, care should be taken in constructing tests so that compiler optimization logic does not affect the intent of the test (e.g., common subexpression elimination).

d. How to determine the accuracy and repeatability of test execution time measurements.

The accuracy of test elapsed time measurements is largely determined by the resolution of the clock used (i.e., smallest nonzero difference in clock values) in relation to the duration of a test. If the clock resolution time is 10 ms and the test execution time is greater than 1 sec, then the error in the execution time measurement is less than +1%. There are a number of factors, however, which affect the repeatability of test measurements. These are primarily caused by run-time system and target operating system operations which are discussed in Section 3.1. For a desired level of measurement accuracy, one must be able to measure the repeatability of test measurements and be aware of what factors affect test measurement accuracy and how they can be controlled. Separate tests are contained within the ACPS to measure clock resolution and test measurement repeatability. For some machine architectures, it may be necessary to repeatably execute every test and only use the maximum or minimum test statistics for comparison.

e. How to ensure, to the extent possible, that consistent run-time environments for Ada, JOVIAL, and FORTRAN implementations are used for fair comparison.

Certainly, within a single machine and target operating system configuration, conventions can be established and measurement techniques employed to ensure consistent execution environments for comparison. A problem arises, however, whenever the underlying machines or target operating systems are different. For example, one may want to compare the performance of an Ada implementation on a VAX-11/785 using VMS to another Ada implementation on a VAX-8600 using VMS. It would be difficult to draw any conclusions about the comparison of test results, because it is not possible to determine to what extent the difference in performance is due to the effect of the Ada implementation and to what extent the difference can be attributed to the effect of the target machine. In situations such as these, one could use a third implementation (e.g., FORTRAN) executing on both machines to provide a reference point for the comparison.

3.1 OPERATING SYSTEM EFFECT

As mentioned above, the underlying target operating system and Ada run-time system can have a significant impact on the repeatability of test measurements. Complex operating systems such as DEC VAX/VMS can impact a test measurement in numerous ways:

- a. Other user programs on a time-shared machine can interrupt test program executions.
- b. Special network and distributed database software products can interrupt test program executions either on a time scheduled basis for status and node polling activities or on an intermittent basis dependent upon activity throughout the network.
- c. Operating system processes and routines can interrupt test programs on a scheduled or intermittent basis for accounting, time management, terminal polling, physical memory allocation adjustment, test program priority adjustment, printing, etc.
- d. Ada run-time systems can distort test measurements through task scheduling activities and unexpected storage management garbage collections.

The user typically has a good deal of control over the effect of the operating system. The tests can be run stand-alone on a computer with no other user program or batch process executing. Network, distributed database, and system processes used for accounting and printing can be disabled. However, no matter how well the ACPS user constrains the run-time environment, the ACPS test repeatability program must still be run to determine the potential variance in test measurements.

3.2 HARDWARE EFFECT

The computer system hardware can affect the test measurement and test evaluation process in two ways: It can affect the repeatability of test measurements on a single machine, and it can impact the comparisons of test executions on different machines.

The effect on test measurement repeatability will primarily be seen in input/output tests. Input/output throughput can be affected by the positioning and fragmentation of files on a single disk. The ACPS test languages do not provide mechanisms for controlling how files are stored on disks. As a result, the user may wish to run ACPS input/output tests several times and use the minimum test measurements obtained for comparison. It is also possible that hardware memory caches can also impact test repeatability. On DEC VAX, use of the high-speed memory cache is determined by physical address location. For DEC VAX/VMS, the virtual to physical address mapping will be different each time a test program is executed. For large ACPS test programs (e.g., loading tests), memory cache use could impact program performance and the user may wish to run these tests several times and use the minimum of test measurements made. Instruction pipelining can also impact test repeatability on computers for which separate memory modules can be accessed simultaneously and for which the user has no control over how his program is stored in physical memory.

The computer hardware configuration has a significant impact on evaluations of compiler implementations on different machines even for machines with the same hardware architecture. Instruction set capabilities and execution times can vary significantly. Memory access time, cache memory size and access time, disk seek and throughput times can also vary tremendously among machines supporting the same instruction set architecture. Ideally, different compiler implementations should be compared through test executions in the same hardware/software environment. If this is not practical, then a third compiler (e.g., FORTRAN) should be used on both machines to provide a point of reference for the comparison.

4. TEST MEASUREMENT AND CODING TECHNIQUES

This section discusses the techniques used to gather data that measure the performance and resource utilization of Ada, JOVIAL, and FORTRAN compilers at compile-time and of compiled ACPS tests at run-time.

Examples of the different methods used in developing ACPS tests are presented and described, which should be useful to users wishing to augment the ACPS with tests of their own.

4.1 COMPILE-TIME MEASUREMENT TECHNIQUES

Data at compile time can be derived from either the host operating system or the compiler. The ACPS compile time data processor, described in detail in Appendix E, assumes that all data are presented in a single file which consists of separate sections in the following order: compilation processing data, post-compilation processing or linkage edit processing data, source module size data, object module size data and load module size data. The expected formats for these sections, along with sample outputs, are also described in Appendix E. For the VAX/VMS version of ACPS, all data were gathered through use of operating system commands. Operating system commands were also used to display the test environment (user quotas, system activity) to ensure that the data gathered for comparison are accumulated in test environments as similar as possible.

4.2 RUN-TIME MEASUREMENT TECHNIQUES

Data are gathered at run-time by test support procedures whose Ada, JOVIAL, and FORTRAN versions are functionally equivalent in the sense that they gather the same data and report them in exactly the same format. The ACPS run-time data processor assumes that all run-time data accumulated for processing are contained on a single file in a sorted order, as described in Appendix E.

In gathering run-time test data, two problems must be addressed. The first problem is concerned with determining which data are available and how to gather them. The second problem addresses the methodology for controlling test execution such that the data gathered are accurate and measure only execution of the test code itself.

Two types of data are gathered by ACPS tests: language-specific and operating system/compiler-dependent.

Language-specific data measure the size of test code, data objects, and the elapsed time of a test. In Ada tests, the address attribute of labels is used to measure the size of test code, and the size attribute of data objects is used to compute their size. In a single test, up to five values can be output for the size of test code and data objects. Two types of elapsed time data are computed. For tests timed through repetitive execution of a test loop, the elapsed time of the test and the number of loop iterations executed are computed and output. For tests timed through single executions of test

code, multiple microsecond level measurements are made and the maximum, minimum, and median timings are computed and output. To collect language-specific data, test support procedures are used to the maximum extent possible. Their use in gathering test data is described in detail and illustrated with examples in Section 4.3.

Operating system and compiler-dependent data are additional performance measures that may be provided by an Ada run-time environment through access to special compiler-dependent run-time procedures or to accounting procedures within an underlying operating system. They may include such data as actual time spent executing machine instructions, number of input/ output operations, physical memory usage, etc. The data are collected by ACPS test support software in a manner that is transparent to the test programs. Up to nine data of this type can be collected and output for processing by the ACPS run-time data comparison tool.

To ensure that the test data collected at run-time are accurate and repeatable and only measure execution of the test code itself, various coding techniques were adopted both within ACPS test programs and within the test support software.

The following coding techniques were employed to ensure to the maximum extent possible that the run-time data collected during a test apply only to the code being tested:

- a. All ACPS tests call test support software to start and stop tests and to gather and report performance data.
- b. Special tests (Table 4-1, page 4-8) were created to measure the overhead of the test support software and the test code loop. The ACPS run-time data processor uses these measurements to remove any overhead not associated with the code being tested.
- c. For some tests, the test overhead cannot be determined by the special test program in Table 4-1. For these tests, the overhead is determined directly in the program containing the test by using a special test support procedure (TCOMP). An example of this approach is discussed in Section 4.3.
- d. For nonmicrosecond level tests, two sets of data are gathered: one for the first iteration through the test loop and the second for subsequent test loop iterations. In this manner, the time to load the test code and its data into memory is isolated and removed from test measurements.
- e. All ACPS tests call a test support initialization procedure which ensures that all test support code and data are in memory before test execution begins.
- f. All ACPS tests call a test support procedure at the end of execution to output test results. This guarantees that the effect of outputting the results from one test execution does not affect execution of subsequent tests.

g. A separate test support procedure (NOOPTM) is called within each test loop to ensure that test code is not removed from the loop by compiler optimization algorithms. The support procedure suppresses compiler optimization logic by referencing but not executing code that sets and uses all global variables used in test loops. If a test is designed to use local variables only, then these variables are by convention assigned to test support global variables within the test loop.

The following coding techniques were used to ensure the accuracy and repeatability of timing measurements:

- a. A separate test program (ADAPARM) was created to measure the resolution of the Ada clock and the representation of predefined data types. It is discussed in more detail in Section 7 and Appendix C.
- b. A separate test program (AFIRST) was created for use in measuring the repeatability of test measurements. Its use is described in more detail in Section 7 and Appendix C.
- c. The test support software outputs an error message if the test execution time is less than a predetermined value. To achieve 99% accuracy in test measurements, the test execution time should be at least 100 times greater than the resolution of the Ada clock (Sec. 7.3.2.1).
- d. The test support software does not allow a test to start until the Ada clock changes value. For microsecond level tests, this removes the effect of operating system overhead for operating systems whose overhead occurs at the change of Ada clock values. (This is true for DEC Ada on VAX/VMS.) This convention also reduces the amount of time necessary to execute tests by maximizing the accuracy of the start time of a test.
- e. To enhance repeatability of test measurements, WHILE loops rather than FOR loops are used to ensure that the loop control code does not vary with the complexity of the code tested within the loop. To control test duration, a global variable (LITERS) is used in the WHILE loop condition that is also incremented by a test support procedure (NOOPTM) within each test loop.

4.3 ACPS CODING TECHNIQUE EXAMPLES

This section describes through example several coding techniques used in developing ACPS test programs. It also shows how Ada programs are mapped into equivalent JOVIAL and FORTRAN programs.

Table 4-1 shows a line numbered example of prototype test loops for multiple iteration tests and single iteration microsecond level tests. This example can serve as a template for development of additional ACPS tests. The following description of the contents of Table 4-1 is ordered by line number:

- Lines Each ACPS test file is preceded by commentary prologue that 1-13 describes the contents of the file.
- Line 3 Lists the test names to which this file applies.
- Line 4 Gives the name of the file.
- Line 6 Lists the initials of the person(s) responsible for development and modification of the file and the date(s) the file was inserted into the ACPS or was modified.
- Lines Describe the purpose of the file. 10-12
- Line 14 Allows use of test support procedures (TINIT, T2VALU, TSTART, NOOPTM, TSTOP, MSTART, MSTOP, TSTOPM, TPRINT) and test support global variables (LITERS) and constants (MICITR).
- Line 15 Allows use of test support procedures (DUMPT) to print the contents of test support global variables.
- Line 16 Allows use of loop iteration parameters (100000) externally defined in a package. These parameters define the duration of tests. They are grouped into packages according to test category to minimize the file editing required to change test durations.
- Line 18 Notice that the main program procedure name is the same as the last six characters of the file name.
- Line 20 Each ACPS test must call the procedure OURSYS.TINIT to initialize test support software.
- Lines Contain a template for development of multiple iteration tests.
 21-28 All test code would be inserted after line 25.
- Line 21 Uses procedure OURSYS.T2VALU to compute the size of the test loop as the difference in addresses of labels which surround the test loop.

Line 22 Uses procedure OURSYS.TSTART to start execution of the test whose name is supplied as an argument. This procedure initializes global variables that can be used by the test code. If initial values different from those set by TSTART are to be specified, then the initialization statements should be inserted between lines 20 and 22 along with the following statement:

set_tmp: = true;

Lines Define the start and end of the test loop. 23, 27

- Line 24 Contains the test loop control statement. The variable LITERS is defined in the package OURSYS, initialized by TSTART to one, and incremented by NOOPTM within the loop. Notice that the loop iteration parameter is a six character name that begins with a "l" and has the same last five characters as the test name.
- Line 25 Invokes procedure OURSYS.NOOPTM for several purposes:
 - a. To increment the loop control parameter LITERS
 - b. To prevent compiler optimization logic from removing test code involving calculations which use or set test support global variables
 - c. To force two sets of test results to be generated: one for the first iteration through the loop and the second for subsequent iterations through the loop
- Line 28 Uses procedure OURSYS.TSTOP to stop test execution and to compute and save all run-time test data for subsequent printing.
- Lines Contain a template for development of microsecond level tests.

 33-40 The test code to be timed would be inserted before line 36 and between the calls to OURSYS.MSTART and OURSYS.MSTOP. The calls to MSTART and MSTOP needn't appear immediately within the test loop but can appear in a procedure or task invoked from within the test loop. In addition, calls to MSTART and TSTART needn't be made from the same procedure or task.
- Line 33 Invokes OURSYS.TSTART to start test execution.
- Line 34 Contains the test loop control statement. The variable LITERS is defined in the package OURSYS, initialized by procedure TSTART, and incremented by procedure MSTART. The test loop iteration parameter MICITR is defined in OURSYS as the maximum number of microsecond level measurements that can be made for a test.

- Line 35 Invokes OURSYS.MSTART to start a microsecond level test measurement.
- Line 36 Invokes OURSYS.MSTOP to compute the elapsed time of a microsecond level measurement and store the result in a test support data buffer.
- Line 38 Uses OURSYS.TSTOPM to stop a microsecond level test and compute and save all microsecond level run-time test data for subsequent printing. TSTOPM computes the maximum, median, and minimum value of all microsecond level measurements made during the test.
- Line 39 Invokes OURSYS.TPRINT to output test results previously saved by TSTOP and TSTOPM. Up to 50 test results can be saved for printing by TPRINT. If more than 50 tests are executed, then TSTOP and TSTOPM will call TPRINT whenever the data buffers become full.
- Line 40 Invokes OURDMP.DUMPT to output the contents of all global variables defined in package OURSYS. The global variable OURSYS.DEBUG controls whether printing occurs when DUMPT is called. By default, printing does not occur. To force printing, OURSYS.DEBUG can be set to boolean true in the test program or in default initialization in package OURSYS.

Table 4-2 contains an example of a template for a package defining test iteration counts. A package of this type is developed for each test category. As shown at line 16, the iteration counts are defined as constants.

Tables 4-3 and 4-4 show JOVIAL and FORTRAN versions of the Ada program in Table 4-1. These tables illustrate the following Ada coding conventions that were adopted to facilitate conversion of Ada tests to JOVIAL and FORTRAN:

- a. Only six characters are used for procedure and data object names in Ada. As a result, all procedure and data object names in Ada tests are identical to those in JOVIAL and FORTRAN.
- b. Ada, JOVIAL, and FORTRAN test names and file names only differ in the first character.
- c. Ada comments are suffixed with two dashes to facilitate translation to JOVIAL.
- d. Ada executable statements begin with at least six blanks to facilitate translation to FORTRAN.

As a result of the use of Ada coding conventions for ACPS tests, much of the work necessary to translate Ada tests to JOVIAL and FORTRAN equivalents was automated with VAX/VMS edit command procedures. The examples shown in Tables 4-1, 4-3, and 4-4 illustrate the following Ada language feature mappings to JOVIAL and FORTRAN:

- a. The use of an address attribute for a label can be implemented in JOVIAL with the LOC function and in FORTRAN with the ASSIGN statement (whose implementation is compiler-dependent).
- b. WHILE statements must be translated to DO statements in FORTRAN. Since a global variable is used as the loop control variable and is referenced by the routine NOOPTM, FORTRAN compilers must generate code to store into the variable for each iteration through the test loop. However, FORTRAN compilers may generate different loop control compiled code depending on the complexity of the test statements which can result in test measurements that are too high.
- c. WITH statements are translated to COMPOOL statements in JOVIAL and to VAX FORTRAN INCLUDE statements in FORTRAN.

As discussed in Section 4.2, for some tests, the test loop overhead cannot be determined by the special test program shown in Table 4-1. For these tests, the overhead is accounted for directly in the program containing the test. This kind of test program is composed of three types of packages: a test overhead package, one or more test code packages, and a test driver package. Examples of these package types are shown in Tables 4-5, 4-6, and 4-7.

Table 4-5 shows a package containing a single procedure that measures the test loop overhead for the IF statement test contained in Table 4-6. This procedure contains all statements (both executed and not executed) that are not part of the test but are necessary for its construction. It must be the first procedure executed in the test program. The following description of the features of the test overhead package shown in Table 4-5 is ordered by line number:

- Line 29 The procedure OURSYS.TINIT is called to initialize test support software variables and ensure that the support software procedures are read into memory.
- Lines 32, 61 OURSYS.TSTART and OURSYS.TSTOP are called to gather data from execution of the overhead test and to save the results for subsequent use and printing.
- Line 34 The loop iteration count (105305) used in the overhead test should have the same value as the loop iteration counts used in test code packages.
- Line 65 The procedure OURSYS.TSAVE must be called to identify the previous test executed as an overhead test so that run-time data can be saved for use in subsequent tests executed within the same Ada program to account for the test loop overhead.

Table 4-6 shows an example of a test code package in which the test loop overhead has been previously computed and saved through invocation of OURSYS.TSAVE. The test support procedure OURSYS.TCOMP is called (line 27) to indicate that previously saved test loop overhead data are to be subtracted from the next test executed. Two sets of test results are generated by the procedure OURSYS.TSTOP: one including test loop overhead (AF05306) followed by one without test loop overhead (AF55306). The test name supplied to OURSYS.TCOMP must contain an "S" in the third character position.

Table 4-7 shows the test driver for tests in Table 4-5 and 4-6. The driver first calls the test that computes the test loop overhead and then calls all other tests to be executed. It finally calls OURSYS.TPRINT to output the run-time data for each test.

The test program structure shown in Tables 4-5, 4-6, and 4-7 is identical to the one used in the ACPS to determine whether machine-independent optimization algorithms are employed by a compiler. In this situation, the performance of a hand optimized version of a test is executed first and is compared with the performance of the compiler optimized version of a test. The run-time data comparison is computed as a fraction [100*(hand_optimized/compiler_optimized)]. To identify the comparison as fractional, a "C" must be used in the third character position of the test name argument to OURSYS.TCOMP [e.g., OURSYS.TCOMP ("AOCO508")].

Table 4-1. Ada Test Loop Overhead Program

```
-- Ada Real Time/Run Time Environment Test
                                                           Aerespace Corporation
23456789012345678901234567890123456789
                      AADDOOD, AAMOODO
           Test
           File
                      AAGGGGG
                REK
                       2/1/88
           Description:
       -- MAKE This test establishes the run time system dependent statistic
          HXXX everhead of the test support software(oursys, ourdap). This test
       -- MMMM should be the first test run in any test sequence.
      with oursys; use oursys;
       with ourdmp; use ourd
      with asopood; use asopood;
             procedure AA00000 is
             oursys.tinit;
             oursys. t2valu(top'address, bettem'address);
             oursys.tstart("AADDDDDD");
      <<top>>> null;
             unile liters <= 100000
                                        1000
             oursys.neoptm; end loop;
      <<bettem>> null;
              oursys.tstop;
            execute test to determine everhead in accessing microsecond level --
            time. --
             oursys.tstort("AAM0000");
             while liters <= micitr leep
                oursys.mstort;
                oursys.mstop;
             end loop;
             oursys.tstopm;
             oursys.tprint;
40
             ourdep.dumpt;
      endi
```

Table 4-2. Sample Test Iteration Count Package

```
Aerospace Corporation --
      -- Ada Real Time/Run Time Environment Test
23456789011234567
111234567
           Test:
                      AACPOOD
           File:
                REK
                       2/1/88
      --
           Description:
      -- XXXX this package defines test loop iteration counts for test
      -- XXXX overhead tests --
      with DURSYS; use DURSYS;
      package AAOPODD is
            100000 : constant our_integer := 300000;
      end AADPOOD;
```

Table 4-3. JOVIAL Test Loop Overhead Program

```
start
           Ada Real Time/Run Time Environment Test
 234567
                                                                   Aerospace Corporation *
                         JADDOOD, JAMODOD
            Test:
            File:
                         JADDOOD
                                                                                               REK
                          2/1/88
                                                                                               •
890123456789012345678901234567890
111111111222222222233333333356
                                                                                               •
       .
            Description:
             This test establishes the run time system dependent statistic
       .
              everhead of the test support software(oursys, ourdmp). This test
              should be the first test run in any test sequence.
       !compool ('ourjoy');
!compool ('jovdmp');
!compool ('jo0p000');
       program a00000;
       begin
              tinit;
              t2valu(loc(top),loc(bottom));
tstart('JA00000');
       top:;
               while liters <= 100000;
                   nooptm;
       bottom:;
               tstop;
             execute test to determine everhead in accessing microsecond level "
       " time."
               tstart('JAM0000');
               while liters <= micitr;
               begin
                  mstart;
                  mstop;
               end"loop;"
               tstopm;
               tprint;
               dumpt;
41
       end
       term
```

Table 4-4. FORTRAN Test Loop Overhead Program

```
Ada Real Time/Run Time Environment Test
                                                                   Aerospace Corporation c
C
                         FA00000, FAM0000
             Test:
                                                                                              C
             File:
                         FA00000
                                                                                              C
        C
                                                                                              C
        c
                   REK
                          2/1/88
                                                                                              C
        C
                                                                                              C
             Description:
                                                                                              C
        C
        C
              This test establishes the run time system dependent statistic
        C
                                                                                              C
              overhead of the test support software(oursys, ourdmp). This test
        C
                                                                                              E
        C
              should be the first test run in any test sequence.
                                                                                              C
        C
                                                                                              C
                      program a00000
include 'ourfor.cmn'
include 'fa0p000.cmn'
                      call tinit
                      assign 100 to tmpisl
assign 200 to tmpis2
call t2valu(tmpisl,tmpis2)
call tstart('FA00000')
        100
                              do 10 liters=1,100000
                                     call nooptm
        10
                              continue
        200
                      continue
                      call tstop
              execute test to determine everhead in accessing microsecond level
       c time.
                      call tstart('FAMODDO')
                      do 299 liters =1.micitr
call mstart
                              call mstop
       299
                      continue
                      call tstopm call tprint
                      call dumpt
                      stop
                      end
```

Table 4-5. Example IF Statement Test Overhead Package

```
-- Ada Real Time/Run Time Environment Test
                                                                                 Aerospace Corporation --
  23
         --
               Test:
                               AF05305
  45
               File:
                               AF05305
                                                                                                                   --
         __
  67
         --
                       ARA.REK
                                      2/1/88
         --
  8
         --
               Description:
  9
10
         -- MXXX This package measures the test loop overhead for tests:
11
12
13
14
15
16
17
18
         -- 英英英英
         -- XXXX af05306
         -- XXXX af05307
         __
         --
                      run statistic $1 = size of the test loop code
         with oursys; use oursys; with AFOPODO; use AFOPODO;
         with ourdmp; use ourdmp; package AF05305 is
20122345
222222222333
22223332
             Procedure F05305;
end AF05305;
             Package body AF05305 is
procedure F05305 is
                          begin
         -- initialize for the test sequence --
                           oursys.tinit;
                           oursys.t2valu(top'address,bottom'address);
oursys.tstart("AF05305");
<<top>>> null;
                           while liters <= 105305
                                                                1000
                                oursys.nooptm;
                               oursys.nooptm;
if (tmpbse) then
tmpbal(1):= false;
tmpbal(2):= false;
tmpbal(3):= false;
tmpbal(4):= false;
tmpbal(5):= false;
tmpbal(6):= false;
tmpbal(7):= false;
tmpbal(8):= false;
tmpbal(9):= false;
tmpbal(10):= false;
                                   tmpbal(10) := false;
                                   tmpba2(1) := false;
                                end if;
                                tmpbsl := false;
tmpbs2 := false;
tmpbs3 := false;
                                tmpbs4 := false;
                                tmpbs5 := false;
tmpbs6 := false;
                                tmpbs7 := false;
                                tmpbs8 := false;
                                tmpbs9 := false;
                                tmpbse := false;
59
60
61
62
63
64
                           end loop;
         <<bottom>> null;
                           oursys.tstop;
                           ourdep.dumpt;
         -- save test results for later use as base value --
65
                           oursys.tsave;
66
                           return;
                       end:
68
             end AF05305;
```

Table 4-6. Example IF Statement Test

```
-- Ada Real Time/Run Time Environment Test
                                                                          Aerospace Corporation --
 23456789
                            AF05306, AFS5306
        --
              Test:
                            AF05306
              File:
        --
                                  2/1/88
        --
                     ARA, REK
              Description:
        --
        --
10
             MXXX This test measures the execution time of MXXX 10 if statements with the then part executed.
        --
13
14
15
16
17
18
                   run statistic #1 = size of test loop code
        with oursys; use oursys; with AFOPDOO; use AFOPDOO;
        with ourdmp; use ourdmp;
            peckage AF05306 is
procedure F05306;
19
20
22
22
23
24
25
26
27
28
29
            end AF05306;
            package body AF05306 is
procedure F05306 is
                    begin
                         oursys.tcomp("AFS5306");
                         oursys.t2valu(top'address,bottom'address);
oursys.tstart("AFD5306");
30
        <<top>> null;
33333333444444444555555555564444466
                         while liters <= 105306
                                                           loop
                             oursys . nooptm:
                             if ( tmpbe2(1) ) then
tmpbs1 := felse;
                             else
                              tmpbal(1) := false;
                             end if; if ( tmpbe2(2) ) then
                               tmpbs2 := false;
                             else
                               tmpbel(2) := false;
                             end if;
if ( tmpbe2(3) ) then
tmpbe3 := felse;
                             else
                               tmpbal(3) := false;
                             end if; if ( tmpba2(4) ) then
                               tmpbs4 := false;
                             else
                               tmpbel(4) := felse:
                             end if; if ( tmpba2(5) ) then
                               tmpbs5 := false;
                             else
                               tmobal(5) := false;
                             end if; if ( tmpbe2(6) ) then
                               tmpbs6 := felse;
                               tmpbel(6) := false;
                             end if; if ( tmpbe2(7) ) then
                               tmpbs7 := false;
                             else
                               tmpbel(7) := false;
                             end if: if ( tmpbe2(8) ) then
68
                              tmpbs8 := felse;
```

Table 4-6. Example IF Statement Test (Continued)

```
70
                          else
71
72
                           tmpbel(8) := felse;
                          end if; if ( tmpbe2(9) ) then
777777788888888
                           tmpbs9 := false;
                           tmpbal(9) := false;
                          end if; if ( tmpba2(10) ) then
                           tmpbsa := false;
                          else
                           tmpbal(10) := false;
                          end if; if ( tmpbse ) then
                           tmpba3(1) := true;
                      end if;
end loop;
       <<bottom>> null;
88
                      oursys.tstop;
89
                      ourdmp.dumpt;
90
                      return;
91
92
           end;
end AF05306;
```

Table 4-7. Example IF Statement Test Driver

```
123456789
        -- Ada Real Time/Run Time Environment Test
                                                                          Aerospace Corporation --
              Test:
        --
                            AFD53D8
         --
              File
                                                                                                        --
        --
                     ARA, REK
                                2/1/88
         --
              Description:
--
               *** This is the driver for tests:
        --
               ₽f05305
        --
               af05306
af05307
        __
        --
        with oursys; use oursys; with AF05305; use AF05306; with AF05306; use AF05306; with AF05307; use AF05307;
            procedure AF05308 is
            begin
        -- execute the test sequence --
                f05305;
                 f05306;
                F05307;
28
29
            oursys.tprint;
end AF05308;
```

5. ACPS EVALUATION TESTING SOFTWARE ARCHITECTURE

The ACPS evaluation testing capability design, as depicted in Figure 5-1, is structured around the desire to test and evaluate several different Ada implementations as well as JOVIAL and FORTRAN capabilities. As such, a common language test and evaluation environment was designed to permit automated comparisons of results from Ada, JOVIAL, and FORTRAN test executions. This section describes the basic test and evaluation architecture and how the three languages fit into the overall capability.

Each language has its own environment and restrictions which must be addressed in order to get a working system. Those areas which are common across all three languages are collected into common capabilities within the test and evaluation capability. Those areas which are specific to a given language, implementation, or host operating system are identified and isolated to the maximum extent possible.

The test and evaluation capability is further divided into specific implementation areas of: compile and link operations, run-time evaluation operations, and result comparison operations.

The compile and link operations comprise the set of steps necessary to compile and link the application for each of the specific test cases and the different languages. Some of the tests are targeted for all three languages, others for Ada, and one for JOVIAL or FORTRAN, and some for Ada only. Initially, the DEC VAX/VMS operating system was chosen, so all of the current procedures are for this specific implementation environment. The basic design requires the correct and consistent usage of compilation/linking options and identification of specified system support files for running the test cases. The compile-time testing evaluation architecture is shown in Figure 5-2. Common language command procedure conventions were established to ensure that compile time statistic files generated for each language are in the same format for presentation to the test result comparator. Example command procedures are discussed in detail in Appendix C for DEC VAX/VMS. Appendix E describes the test statistic and comparison outputs in detail.

The run-time evaluation operations comprise the basis for the run-time test and evaluation capability. These operations define a common set of run-time operations and interfaces for use by the test programs during execution. These operations have been packaged together to form what is known as the OURSYS interface. This interface is constructed, to the extent possible, for Ada, JOVIAL, and FORTRAN. It basically provides a set of procedures and functions for timing and measuring a test case as well as a common set of data definitions and other utilities. Figure 5-3 graphically depicts the ACPS runtime testing evaluation architecture. Each set of language tests is supported by a common test interface (OURSYS) implemented in each language and buttressed by an inner target operating system-specific interface implemented in assembly language or FORTRAN. The common test interface generates test results in a common language format for presentation to the test comparator. Appendix E contains a detailed description of the test data and comparison output formats.

The result comparison operations comprise the set of steps necessary to interpret and present the results of the test execution. Data gathered from the compile, link, and execution phases of the tests are brought together from the various language and implementation environments for comparison and presentation. The ACPS test comparison tool is used to present formatted test results and comparisons to the user. It consists of two separate programs: the test compilation comparator (CCOMP) and the test execution comparator (CEXEC). As shown in Figures 5-4 and 5-5, each tool has a similar architecture. The tools take as input two unformatted test result files and generate formatted output for each input file as well as output that compares the results from common tests within each input file. Appendix E describes the format of all comparison tool interface files in detail.

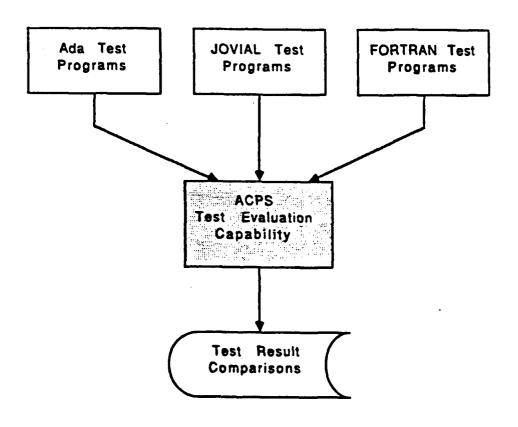


Figure 5-1. ACPS Test Evaluation Architecture

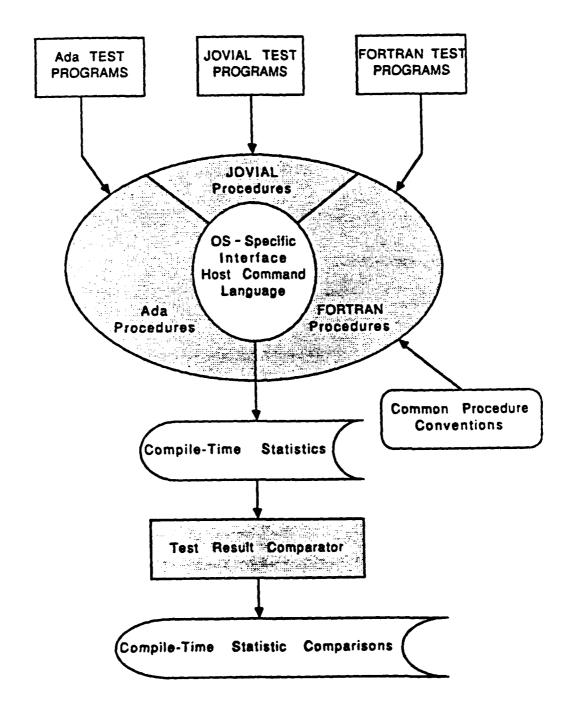


Figure 5-2. Compile-Time Evaluation Architecture

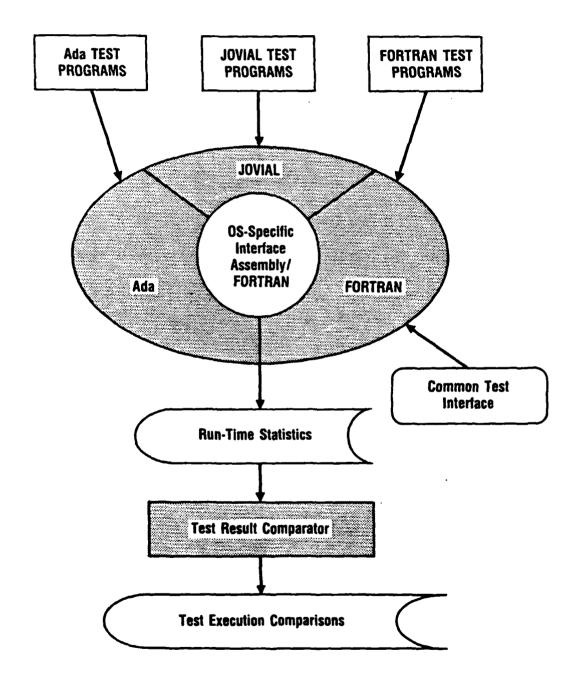


Figure 5-3. Run-Time Evaluation Architecture

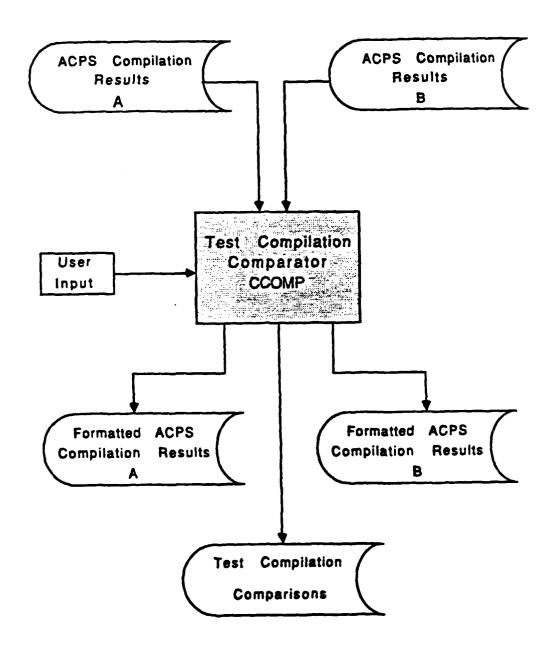


Figure 5-4. Test Compilation Comparator Interfaces

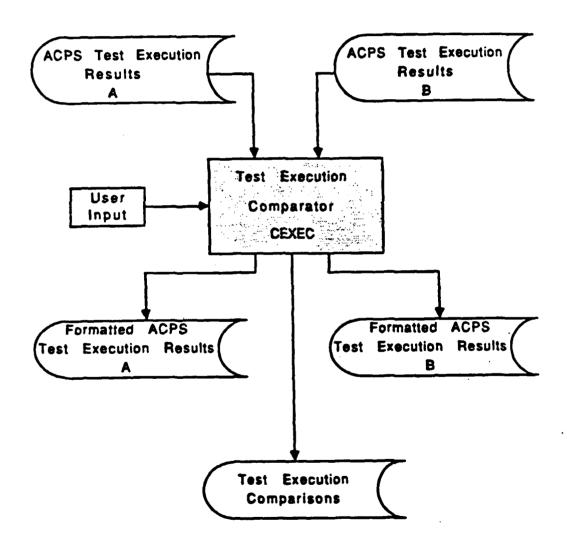


Figure 5-5. Test Execution Comparator Interfaces

6. NAMING CONVENTIONS

The primary objectives in the development of the ACPS were to ease conversion of Ada test programs to JOVIAL and FORTRAN and to minimize the effort needed to rehost the ACPS. To facilitate these objectives, three types of naming conventions were formulated: file name, test name, and programming language identifier.

File name conventions were selected so that ACPS file names would be compatible with all host computer operating systems commonly used in Department of Defense (DoD) applications. The ACPS file name syntax is identical to that of the Control Data Corporation Cyber series of computers executing the NOS BE operating system. ACPS file names are restricted to seven characters in length. The characters may be capital letters or digits. The file name must begin with a letter. Since the ACPS was developed in a VAX/VMS environment, each ACPS file also has a file type appropriate to the VMS file type conventions used by DEC VAX Ada, ECSPO JOVIAL, and DEC VAX FORTRAN compilers. Table 6-1 lists all ACPS file types. For almost all ACPS files, the file names, however, are unique and the file type field is not necessary to distinguish ACPS files within a language or between languages. However, in certain situations, multiple versions of a files may be present. The versions are distinguished by file type. For Ada test support software, file types are employed to distinguish files according to their use of optimization pragmas (SPACE, TIME). For other files, the need for additional file types arises whenever a compiler used in development of an ACPS test cannot compile single or multiple statements within the file. This can occur for statements which (a) are too complicated, (b) that invoke noncompilable procedures, or (c) that test capabilities not supported by the compiler, but which may be provided by other host environments or other compilers. In these situations, the file type USE is used for the file that includes the noncompilable statements, and compiler-specific file type (e.g., JOV) is used for the file with noncompilable statements either deleted or transferred into comments.

The conventions and formats for ACPS test names are identical to those for file names and as a result, the correspondence between test names and file names is predetermined by the naming conventions. The format of ACPS test names is similar to the format of test names used in the Ada Compiler Validation Capability (ACVC) test suite. ACPS test names are divided into fields whose contents describe much of what must be known about a test: the language the test is written in; the category of the test; which language feature is being tested; whether the test is compiler-dependent, etc. The detailed formats for ACPS file names and test names are described in Sections 6.1 and 6.2, respectively.

To facilitate conversion of Ada test programs to JOVIAL and FORTRAN, Ada identifier conventions were established. Ada identifiers in newly developed tests (i.e., tests not acquired from other sources) were restricted to conform to FORTRAN 77 syntax: containing only six or less characters; containing only letters and digits; and beginning with a letter. Therefore, all data object and procedure names in corresponding Ada, JOVIAL, and FORTRAN tests are identical.

6.1 FILE NAME FORMAT

ACPS file names are comprised of seven characters divided into five fields. The name description following is ordered by fields according to their character positions:

Character 1: indicates the type of file as follows:

- A an Ada source file
- C an Ada source file with constraint checks suppressed
- E an Ada source file with exception handlers in every procedure
- F a FORTRAN source file
- I an input data file
- J a JOVIAL source file
- M a machine language source file (not currently used)
- 0 an output data file
- S an Ada source file with a space optimization pragma
- T an Ada source file with a time optimization pragma

Character 2: indicates the test category as follows:

- A test loop overhead test
- F language feature test
- G general or application specific test involving multiple language features
- L multi-task loading test either CPU or input/output intensive
- 0 compiler optimization test

Character 3: dependent on test category and indicates the following:

- D the file is involved in a test of compiler-dependent language features
- F the file contains FORTRAN modules used by JOVIAL test programs
- J the file contains a JOVIAL compool or FORTRAN common block definition
- M the file contains a microsecond level language feature test
- N the file contains a microsecond level language feature test involving compiler-dependent language features
- zero has no special significance

Character 4: dependent on test category as follows:

zero - for test categories A, G, and O

- LRM Chapter for test categories F and L. The character is in hexadecimal notation and indicates that the file is involved in a test that applies to this chapter in the Ada language standard (MIL-STD 1815A).
 - P for all test categories. The character indicates that the file contains test loop iteration parameters.
- Characters 5-7: used as test number identification. The characters may be numeric or alphabetic.

6.2 TEST NAME FORMAT

ACPS test names contain seven characters divided into five fields. The name description that follows is ordered by fields according to their character positions:

Character 1: indicates the type of test as follows:

- A an Ada test
- C an Ada test with constraint checks suppressed
- E an Ada test with exception handlers in every procedure
- F a FORTRAN test
- J a JOVIAL test
- M a machine language test
- S an Ada test with space optimization pragmas
- T an Ada test with time optimization pragmas

Character 2: indicates the test category as follows:

- A a test loop overhead test
- F a language feature test
- G a general or application specific test involving multiple language features
- L a multi-task loading test that is either CPU or input/output intensive
- 0 a compiler optimization test

Character 3: dependent on test category and indicates the following:

- C an optimization comparison test
- D a test involving compiler-dependent language features
- I an information test. The run statistics fields contain the test information
- M a microsecond level language feature test
- N a microsecond level language feature test involving compilerdependent language features
- S a language feature test with test loop overhead statistics removed
- zero has no special significance

Character 4: dependent on test category as follows:

zero - for test categories A, G, and O

LRM Chapter - for test categories F and L. The character is in hexadecimal notation and indicates that the test applies to this chapter in the Ada language standard (MIL-STD 1815A).

Characters 5-7: used as test number identification. These characters containing either a capital letter or a numeric digit. For many language features tests, character 5 indicates that the test applies to this section of the LRM chapter specified by character 4.

Table 6-1. ACPS File Types

File Type	Purpose
Ada	Used for Ada source code modules. Each file contains either a main program, a package, a package specification, or a package body.
CMN	Used for FORTRAN common definition modules that are referenced by machine-specific INCLUDE statements in FORTRAN source code files. Each file corresponds to an Ada package specification.
CPL	Used for JOVIAL compool definition modules. Each file corresponds to an Ada package specification.
DAT	Used for ACPS test program input/output files and for files referenced by JOVIAL !COPY directives.
DEC	Used for Ada source code modules that contain the DEC VAX Ada-specific language pragmas VOLATILE and TIMF_SLICE.
FOR	Used for FORTRAN source code modules. Each file is either a main program, BLOCK DATA program, or collection of FORTRAN routines.
JOV	Used for JOVIAL source code modules. Each file corresponds to an Ada main program or an Ada package body.
SPA	Used for Ada test support software modules that contain the pragma OPTIMIZE(SPACE).
TIM	Used for Ada test support software modules that contain the pragma OPTIMIZE(TIME).
USE	Used for Ada, JOVIAL, or FORTRAN source code modules that were not used on DEC VAX/VMS because either the files were not compilable or executable or because an equivalent VAX version of the file was used. The FORTRAN files with this type may contain common definition modules, and the JOVIAL files may contain compool definition modules.
VAX	Used for modules that test VAX-specific language features. These files are not placed on the ANSI tape.
VAXSPA	Used for test support software modules that contain VAX-specific language features and the pragma OPTIMIZE(SPACE). These files are not placed on the ANSI tape.
VAXTIM	Used for test support software modules that contain VAX-specific language features and the pragma OPTIMIZE(TIME). These files are not placed on the ANSI tape.

7. ACPS INSTALLATION AND TEST EXECUTION

This section discusses installation and execution of the various parts of the test and evaluation capability. As described earlier, the testing process involves three basic phases: compilation, execution, and comparison. Each phase involves a number of different aspects about the test capability depending on the language(s) and environment being addressed. For the initial release of the test capability, the DEC VAX/VMS operating system is the execution environment used.

The compilation and execution phases are controlled by command procedures which invoke the specific compiler(s) for the specified test cases, link the results together, and invoke execution of the test cases. Results are then processed by the comparison programs for presentation to the user. For DEC VAX/VMS, these command procedures and comparator programs are already provided. For other operating systems, the user will need to construct similar operations to provide the same functionality. In addition, some low-level operating system interface operations will have to be supplied in order to access operating system dependent statistics.

The following subsections describe the tasks necessary to install, compile, and execute the ACPS tests and to use the test comparison programs. The discussion will be as general as possible and will be oriented toward users needing to execute the ACPS tests on operating systems other than DEC VAX/VMS. References will be given as appropriate to appendices for detailed descriptions and examples of outputs. Appendix C describes what must be done to use the ACPS test and evaluation capability for DEC VAX/VMS.

7.1 INSTALLATION OF ACPS SOURCE FILES

The ACPS source files are delivered on an ANSI formatted tape generated on a DEC VAX/VMS system using the COPY command. The tape format and content are described in detail in Appendix A. The procedures to read the tape are host machine dependent. The tape contains four types of files: Ada test files, JOVIAL test files, FORTRAN test files, and comparison tool source files.

All ACPS test files were developed to compile and execute properly on the DEC VAX/VMS 4.X operating system using the DEC VAX Ada V1.4-33 compiler, the ECSPO JOVIAL FV-03.000 compiler hosted and targeted to VAX/VMS, and the DEC VAX FORTRAN V4.7-271 compiler. The language-specific test support software references external procedures that gather target operating system dependent performance statistics. These procedures as well as command procedures to compile and execute ACPS programs are not provided on the ANSI delivery tape.

As discussed in Section 6.1, the file type USE for a source file indicates that the file was not used in the DEC VAX/VMS version of the ACPS but should be used when rehosting the ACPS. In some situations, another version of the file (e.g., with file type ADA) is provided on the ANSI tape. This version of the file was used on DEC VAX/VMS because the USE version wasn't compilable or executable. Tables G-1 to G-7 in Appendix G list all test program files contained on the ANSI tape and indicate which files are supplied with multiple versions.

Subsequent subsections discuss the machine-dependent modifications that must be made to the supplied files and the additional software and command procedures that must be created to fully utilize the ACPS test and evaluation capability.

7.2 CREATION OF COMMAND PROCEDURES

Test compilation and execution command procedures are not supplied with the ACPS. Tables G-1 to G-7 in Appendix G list the programs and supporting files for all ACPS test types and test languages. The file names of input/output files for all ACPS tests are constructed by the language-specific test support procedures FINAME and FIFORM. Table 7-1 lists the file names of input/output files used by all type A(Ada) tests. The same file names are used by corresponding tests in other test types (types C, E, F, J, S, and T). Table 7-2 lists the FORTRAN unit numbers assigned to files in input/output tests. All Ada tests write test result data output to the default output device. All JOVIAL and FORTRAN tests write test data output to unit 6, which is not connected to an external file.

ACPS test comparison programs use up to eight input/output files. Appendix E describes the purpose, format, and FORTRAN unit number of each comparison program input/output file. FORTRAN OPEN statements are only used to assert whether the file is formatted or not and whether it is to be read or written. OPEN statements are not used for terminal input/output units.

If the ACPS test comparison programs are to be used, compilation and execution command procedures must be constructed so that the test result files generated can be processed by the comparison programs. Appendix E describes the content and format expected by the comparison programs for compile-time and run-time test result files with operating system-dependent records and data specific to DEC VAX/VMS. The comparison programs not only expect input test result files to be in a specific format; they also expect file compilations, program linkage edits, file size computations, and test executions to appear in a specific order. This ordering is defined in Section E.3. Tables G-1 to G-7 in Appendix G show the order that programs should be compiled and executed.

There are seven types of ACPS tests supplied. Separate compilation and execution command procedures should be created for each type of test in order to perform comparisons (e.g., type A versus type J, type A versus type C, etc.). There are two versions of each of the packages OURSYS and OURTYP: one with range constraints on numeric types (files OURSYSR and OURTYPR) and one without (files OURSYS and OURTYP); all Ada tests should be compiled and executed with both versions. Several of the Ada test support software files are supplied with the file types SPA and TIM. These files should be used for the S and T type Ada tests, respectively. Table 7-3 lists the file types of all language-specific test support software files supplied on the ANSI tape.

7.3 MACHINE-DEPENDENT SOFTWARE MODIFICATIONS

This section discusses the machine- and compiler-dependent language features that are used in ACPS source code files and also the kinds of source code modifications that may need to be made when rehosting the ACPS. The ACPS was designed so that almost all statements using machine-dependent language features are placed in the test support software. If a particular feature used in a test support package is not supported, Tables 7-1 through 7-4, can be used to assist identification of the programs which must be deleted, since these figures list which test support packages are used by each test program.

7.3.1 Machine-Specific Test Support Software

Several target machine and target operating system-dependent external procedures are called by language-specific test support software to access microsecond level time and run-time environment performance data. These procedures are not supplied with the ACPS and must be developed. A description of the purpose of and arguments to these procedures is contained in Appendix D. All JOVIAL and FORTRAN tests assume that the function SECS (described in Appendix D) will be supplied to permit test support software to compute elapsed execution times. If the capability to access microsecond level time cannot be provided, then none of the microsecond level tests (i.e., tests names with M or N in character position three) can be executed. If additional run-time environment data can be supplied, then modifications are required to the run-time test comparator to process and output these data.

7.3.2 Language-Specific Test Support Software

The language-specific test support software is used by ACPS tests to control the gathering and reporting of test result data. Functionally equivalent capabilities are provided for each test language. Table 7-4 describes all language-specific test support software files and shows the correspondence of files among the three test languages. Compiler- and machine-dependent statements are identified in the Ada test support software by special comment strings (--*) placed at the end of the statement. The user must manually identify the corresponding statements in the functionally equivalent JOVIAL and FORTRAN files. The modifications that may need to be made to the test support software are as follows:

- a. Interface to machine-specific test support software. If machine-specific test support software (Sec. 7.3.1) cannot be developed or an Ada compiler does not permit interface to them, then stubs for each of the requisite procedures should be developed and integrated into the test support software.
- b. ACPS input/output. File name dependencies are encapsulated in the procedure FINAME. Ada FORM parameter dependencies are handled by the procedure FIFORM. If a FORTRAN compiler is not available, then the FORTRAN routines in files SYSJOV and TMPDMP that perform input/output for JOVIAL test support software must be redeveloped. Ada test support software uses the predefined Ada generic package TEXT_IO for reporting test results. If this package is not supported, then Ada statements that output test results must be changed to invoke equivalent functions in another language.

- Numeric data types. ACPS tests were developed on the DEC VAX computer which has numerous machine level integer and floating point data types. Section C.5 discusses the mapping between ACPS numeric types and Ada predefined types. (Note: The ACPS type OUR_D_FLOAT is only used for the DEC VAX/VMS version of the ACPS.) The range constraints supplied for these data types in packages OURSYSR and OURTYPR are based on the corresponding size of the underlying VAX data type (as shown in Section C.5) and may need to be changed. The FORTRAN version of OURTYP contains nonstandard FORTRAN syntax for data type specification statements. These statements may have to be modified for each machine-specific FORTRAN compiler. Some of the ACPS data types (e.g., OUR_SHORT_SHORT_INTEGER) may not be supported by each language specific compiler. This may be resolved by either changing the machine data type mappings, or by modifying or deleting the ACPS tests that use the unsupported data types. However, in order to obtain meaningful comparisons between ACPS test execution for different compilers on the same machine, the underlying machine data type for each ACPS data type should be the same for all compilers used.
- d. Representation specifications. The bit level storage allocation statements in package OURSPC are machine and compiler dependent and may need to be changed, or the associated ACPS tests may have to be deleted or modified.
- e. <u>Pragma PACK</u>. Support of the PACK pragma is compiler-dependent. It is used by package OURSPC. Its use may have to be deleted in OURSPC and the associated ACPS tests modified or deleted as well.
- f. Address arithmetic. The procedure T2VALU is used to compute the difference in address values of its arguments. This computation is compiler-dependent and may have to be deleted. Since every Ada test program references address attributes of labels, many files may need to be modified. One approach that may be used is to declare objects (e.g., top, bottom) in package OURSYS that have the same name as program labels. For a given machine, the address value calculation should be expressed in the same units for all compilers. For DEC VAX, results from address calculations are expressed in units of bytes.
- g. Elapsed time calculations. The accuracy of elapsed time calculations should be consistent across compilers. JOVIAL and FORTRAN test support software reference the machine-specific function SECS, which returns the current value of time as a floating point value in units of seconds. If the resolution of the Ada clock is worse than the resolution of values returned by SECS, then SECS should be used in Ada support software to access time. SECS will be invoked by Ada support software if the value OS is assigned to the variable TCLOCK in the file ADASYS.

- h. Test loop overhead statistics. The test execution comparison program is intended for use in accounting for the overhead introduced by the test support software in controlling test executions. If this tool cannot be used (e.g., on machines that do not support FORTRAN), then variables in the test support software must be set to allow the test support software itself to account for the overhead it introduces into test executions. A special program in each test language (AFIRST, FFIRST, JFIRST) is used to measure the values to be assigned to these variables. A more detailed description of these variables and the test programs used to calculate their values is contained in Section C.7.
- i. FORTRAN global common reference. In FORTRAN test support software, Ada package specifications are implemented in separate nonexecutable source files. These source files are then referenced by VAX FORTRAN INCLUDE statements where necessary. These INCLUDE statements will need to be modified for each FORTRAN compiler used.
- j. Multiple FORTRAN program units per file. Several FORTRAN test support software files contain more than one program unit or subroutine. These files will need to be partitioned into separate files for compilers that allow only one program unit per file.
- k. Math function names. The Whetstone test exercises numerous mathematical functions while other tests exercise the same functions individually. The package MATHFUN is used to make these functions available for ACPS data types with the same names used in the Whetstone test. This package is compiler-dependent and may need to be modified. If the run-time environment does not support access to math functions, then all tests using them should be deleted.
- 7.3.2.1 Determination of Ada Compiler Dependent Parameters. The program ADAPARM is used to compute the resolution of the Ada clock, the minimum delay interval in a DELAY statement, the size of predefined data types, and the name of the standard output file. Section C.5 discusses the use of this program and shows sample output from it for DEC VAX Ada.

7.3.3 ACPS Tests

Many ACPS tests involve the use of compiler-dependent features of Ada which may not be supported or which may require source language changes in order to execute. All ACPS files which are involved in tests of Ada language features that are known to be compiler-dependent contain the symbol D or N in the third character position of the file name (Sec. 6.1). Any statements in an Ada source file directly using compiler-dependent features that may require modification will be identified with a comment appearing at the end of the statement (--*). Location of the corresponding statements in the equivalent FORTRAN and JOVIAL source files must be determined manually. Tables G-1 through G-5 in Appendix G underline all Ada test files that may require source code modifications to compile or execute properly. Other machine-dependent test files use features that may not be supported (e.g., input/output) and

that cannot be made to work through modification of the source code. For these files, to the extent possible, the use of compiler-dependent features has been placed in the test support software. Compiler-dependent language features used include the following:

- input/output statements
- pragmas INLINE, OPTIMIZE, PACK, PRIORITY, SHARED, SUPPRESS
- task scheduling algorithms
- use of a special pragma (TIME_SLICE for DEC VAX Ada) to force timed sliced scheduling of tasks of equal priority
- use of predefined numeric data types other than integer and float
- address and storage size attributes
- representation specifications
- math function names
- change of representation
- nonstandard data type conversions
- unchecked storage deallocation

All values computed in integer calculations are less than 16 bits in magnitude. Test iteration counts can be greater than 2**16 and may need to be modified for execution on 16-bit machines.

All tasking tests that use the priority pragma assume that three priority levels are available and that a preemptive task scheduling algorithm is used by the Ada run-time system. Many tests use a DELAY statement in a high priority task to allow lower priority task(s) to be executed and the assumption is made that at the end of the delay interval the high priority task will preempt any lower priority tasks from executing. In addition, task loading tests assume that task execution can be completed within OURSPC.max_time seconds. If a task in a type A multi-tasking test aborts, the user will not be notified as to why the task aborted. The user should therefore execute the type E version of all Ada tasking tests first. Since these tests contain exception handlers in all procedures, the user will be notified about the type of any error that occurs for corrective action (e.g., increasing the storage_size attribute for a task).

For JOVIAL tests, FORTRAN subroutines are used for input and output operations. If a FORTRAN compiler is not available, then the FORTRAN subroutines in files SYSJOV and TMPDMP will have to be redeveloped.

For FORTRAN tests, all executable source files use VAX FORTRAN INCLUDE statements to reference global common definitions. These statements will have to be modified for each FORTRAN compiler used. In addition, some test files contain more than one program unit or subroutine. These files will need to be divided into separate files for compilers that allow only one program unit per source code file. For these compilers, all local procedure tests (see Appendix F) can be deleted.

7.3.4 ACPS Test Comparison Tool

The ACPS test comparison tool consists of two programs: a compile-time test result comparator and a run-time test result comparator. Both programs are implemented in FORTRAN 77 and utilize the VAX FORTRAN INCLUDE statement to import global common specifications. The programs are divided into operating system-dependent modules and operating system-independent modules. The target operating system-dependent modules for VAX/VMS are included and identified in the source files and must be redeveloped for each new host and target operating system. The comparison tool consists of the following source files: CCOMP, CCOMPA, CCOMPV, CEXEC, CEXECA, CEXECV. The files CCOMPV and CEXECV are VAX/VMS-specific and are provided to ease rehosting of the comparison tool.

7.4 DETERMINATION OF TEST DURATION

Test durations are determined by test iteration counts which are grouped into files according to test category (Sec. 6.1). The iteration counts were set so that most type A Ada tests execute for at least 1 sec exclusive of test overhead using DEC VAX Ada on a VAX-11/8600.

The duration of a test is essentially driven by the desired accuracy of test measurements. For a desired measurement accuracy of 99%, tests (exclusive of loop overhead) must be executed for a duration at least 100 times greater than the resolution of the clock used. In addition, this measurement accuracy must be achieved for every test execution. As discussed in Section 3, the repeatability of elapsed time measurements is impacted by the run-time system architecture. A separate test program, AFIRST, is used to measure the repeatability of test measurements. The use of AFIRST in demonstrating test measurement accuracy for DEC VAX/VMS is discussed in Section C.8. AFIRST should be executed at least 50 times so that approximately 1000 test measurements are made for the same test code. The variance in test measurements made determine the length of time required to run a test to achieve an expected level of test measurement accuracy. The test iteration counts can then be adjusted accordingly.

7.5 DETERMINATION OF TEST MEASUREMENT ACCURACY

Section 7.4 discusses varying the test durations of a single program (AFIRST) to ensure test repeatability. Although this process does account for inaccuracies in the clock used and for scheduled or intermittent interference from the run-time system or underlying operating system, it does not account for all factors that impact program performance for all machine architectures. For the DEC VAX computer, it has been seen that the amount of physical memory

can have a significant impact on the execution efficiency of test programs. Single test program execution speeds have varied by more than 30% irrespective of test duration for large memory configurations (e.g., 48 Mbyte). It is believed that this variance is due to the combined effect of instruction pipelining and how programs are mapped to physical memory. For some machine architectures, therefore, it is necessary to compute the variability of each test measurement made.

As shown in Sections C.10 and E.24, the run-time test comparator tool can be used to determine the accuracy of test measurements by computing the maximum and minimum values of test execution data for each test which is repeatedly executed. The test should be repeatedly run until the maximum and minimum run data do not change. Only the maximum or minimum data for each test should be used for comparison.

7.6 PERFORMANCE OF TEST COMPARISONS

The ACPS was designed to encourage the user to perform as many test execution comparisons as possible. For a single Ada compiler, over 10,000 test comparisons can be made among ACPS test programs processed by that compiler. To fully utilize the capabilities of the ACPS, it is imperative that the ACPS test comparison tools are installed and used.

The ACPS consists of seven types of benchmark test programs as described in Section 2. The ACPS test evaluation capability was designed for comparison of sets of tests of each type. Appendix F describes each individual test for each test type. These test descriptions also suggest additional comparisons (e.g., see the description for test AFD4135) that can be made by the user but currently not automatically by the test execution comparison tool. Five sets of Ada tests are provided. Five additional sets of executable Ada tests should be created by compiling each Ada test program using two versions of the Ada packages OURSYS (files OURSYS, OURSYSR) and OURTYP (files OURTYP and OURTYPR). Compiler options can also be used to increase the number of comparisons that can be made. For example, DEC VAX Ada permits suppression of compiler optimization algorithms. By using this, option, ten additional sets of Ada tests can be generated. Also, DEC VAX FORTRAN not only allows suppression of optimization algorithms but also permits inclusion of run-time array bound checks. For DEC VAX FORTRAN, one could therefore easily create four different test sets from a single set of test programs.

When comparing the performance of two different Ada compilers, ten different comparison options are available (comparison of type A, C, E, S, and T tests which are compiled both with and without range constraints on numeric data types). For a given Ada compiler, numerous comparison options are available to determine the effect of using range constraints on numeric types, of suppressing constraint checks, of using space or time optimization pragmas, and of using exception handlers in procedures.

When comparing the performance of different compilers for a given set of tests, it is important to make sure that the machine representation of each numeric data type used is the same for both compilers and also that the size

of components of corresponding record structures is the same. ACPS language feature tests for Section 13.7 of the LRM (tests AFOD720 to AFDD721) display the size of all numeric data types used, the size of all composite data types used and the size of all record data type components. These data are processed for comparison by the test execution comparison tool. The Ada program ADAPARM determines the internal representation of all numeric data types used in ACPS test programs, as described in Section C.5.

The most difficult and time consuming task in generating test comparisons is to ensure that each test executes for the necessary amount of time to guarantee a desired level of test measurement accuracy. In construction of some test programs, little concern was given as to how long each test would have to be executed to ensure accurate test measurements. As a result, some of the difference tests (e.g., AFS5406) may require exorbitant computer time to achieve the desired test duration. The test iteration counts supplied on the ACPS ANSI tape were generated as follows. First, the A type tests were executed using DEC VAX Ada on a VAX 8600. A software tool was then used to adjust the iteration counts based on the execution times obtained, with the constraint that no test should be required to execute for more than 30 sec. These iteration counts were then used for all of the other test types.

Table 7-1. Ada Type A Test Program Input/Output Files

PROGRAM	INPUT/DUTPUT_FILES					
AFDE220	OFDE201 OFDE206 OFDE211 OFDE216	OFDE202 OFDE207 OFDE212	OFDE203 OFDE208 OFDE213	OFDE204 OFDE209 OFDE214	OFDE205 OFDE20A OFDE215	
AFDE250	IFDE231 IFDE236 IFDE241 IFDE246	IFDE232 IFDE237 IFDE242	IFDE233 IFDE238 IFDE243	IFDE234 IFDE239 IFBE244	IFDE235 IFDE23A IFDE245	
AFDE420	OFDE401 OFDE406 OFDE411 OFDE416	OFDE402 OFDE407 OFDE412	OFDE403 OFDE408 OFDE413	OFDE404 OFDE409 OFDE414	OFDE405 OFDE40A OFDE415	
AFDE450	1FDE431 1FDE436 1FDE441 1FDE446	IFDE432 IFDE437 IFDE442	IFDE433 IFDE438 IFDE443	IFDE434 IFDE439 IFDE444	IFDE435 IFDE43A IFDE445	
ALDE2C1	OLE2001					
ALDE2C2	OLE2001 OLE2006	OLE2002 OLE2007	OLE2003 OLE2008	OLE2004 OLE2009	OLE2005 OLE2010	
AL DEZC3	OLE2001					
ALDE2C4	OLE2001 OLE2006	OL E2002 OL E2007	OLE2003 OLE2008	DL E2004 OL E2009	OLE2005 OLE2010	
ALDE2C5	ILE2001	•		•	•	
ALDE2C6	ILE2001 ILE2006	ILE2002 ILE2007	ILE2003 .	ILE2004 ILE2009	ILE2005 ILE2010	
AL DE2C7	ILE2001		·			
ALDE2C8	ILE2001 ILE2006	ILE2002 ILE2007	ILE2008	ILE2004 ILE2009	ILE2005 ILE2010	
ALDE4C1	OLE4001				•	
ALDE4C2	OLE4001 OLE4006	DL E4002 DL E4007	DLE4003 DLE4008	DLE4004 OLE4009	OLE4005 OLE4010	
ALDE4C3	OLE4001					
ALDE4C4	OLE4001 OLE4006	OLE4002 OLE4007	DLE4003 OLE4008	OLE4004 OLE4009	OLE4005 OLE4010	
ALDE4C5	ILE4001					
ALDE4C6	ILE4001 ILE4006	ILE4002 ILE4007	ILE4003 ILE4008	ILE4004 ILE4009	ILE4005 ILE4010	
ALDE4C7	ILE4001					
ALDE4C8	ILE4001 ILE4006	ILE4002 ILE4007	ILE4003 ILE4008	ILE4004 ILE4009	ILE4005 ILE4010	

Table 7-2. FORTRAN Test Program Input/Output Files

PROGRAM	INPUT/OUTPUT FILES(FILENAME-UNIT NUMBER)						
FFDE220	OFDE201-11 OFDE206-16 OFDE211-21 OFDE216-26	OFDE202-12 OFDE207-17 OFDE212-22	OFDE203-13 OFDE208-18 OFDE213-23	OFDE204-14 OFDE209-19 OFDE214-24	OFDE205-15 OFDE20A-20 OFDE215-25		
FFDE250	IFDE231-11 IFDE236-16 IFDE241-21 IFDE246-26	IFDE232-12 IFDE237-17 IFDE242-22	IFDE233-13 IFDE238-18 IFDE243-23	IFDE234-14 IFDE239-19 IFDE244-24	IFDE235-15 IFDE23A-20 IFDE245-25		
FFDE420	OFDE401-11 OFDE406-16 OFDE411-21 OFDE416-26	OFDE402-12 OFDE407-17 OFDE412-22	OFDE403-13 OFDE408-18 OFDE413-23	OFDE404-14 OFDE409-19 OFDE414-24	OFDE405-15 OFDE40A-20 OFDE415-25		
FFDE450	IFDE431-11 IFDE436-16 IFDE441-21 IFDE446-26	IFDE432-12 IFDE437-17 IFDE442-22	IFDE433-13 IFDE438-18 IFDE443-23	IFDE434-14 IFDE439-19 IFDE444-24	IFDE435-15 IFDE43A-20 IFDE445-25		

Table 7-3. Test Support Software File Types

Ada	
ADADMP X ADASPC ADASYS ADATPP MATHFUN X OURSPC OURSPC OURSYS X OURSYS X OURTYP OURTYPR DMPJOV JOVDMP X JOVMATH X JOVMATH X JOVSPC X JOVS	
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MATHFUN	X
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FORDMP X FORSYS X FORTYP	X
FORSYS X FORTYP	
FORSYS X FORTYP	
FORTYP	
	X
Α ΛΟΊΛΟΥ	
SYSBLK X	
SYSFOR X	
TYPFOR	X

Table 7-4. Language-Specific Test Support Software Files

File !	Name		
<u>Ada</u>	<u>JOVIAL</u>	FORTRAN	Description
OURSYS	OURJOV	OURFOR SYSBLK	Package specification for numeric types, test control and reporting procedures, and scalar global variables.
ADASYS	JOVSYS SYSJOV	SYSFOR FORSYS	Package body implementing procedures defined in OURSYS.
OURSYSR			Same as OURSYS except range constraints are supplied for each numeric data type.
OURDMP	JOVDMP		Package specification for global variable dump procedures.
ADADMP	DMP JOV TMP DMP	FORDMP	Package body implementing procedures defined in OURDMP.
OURTYP	JOVTYP	FORTYP	Package specifications for special numeric types and global variables, and for procedures that set/use them.
OURTYPR			Same as OURTYP except range constraints are supplied for each numeric data type.
ADATYP	TYPJOV	TYPFOR	Package body implementing procedures defined in OURTYP.
OURSPC	JOVSPC		Package specification for composite data types and global variables and procedures that set/use them.
ADASPC	SPCJOV		Package body implementing procedures defined in OURSPC
MATHFUN	JOVMATH		Package specifying standard names for math functions as referenced in the WHETSTONE benchmark.

8. Ada RUN-TIME ENVIRONMENT PERFORMANCE EVALUATION

The purpose of the ACPS test evaluation capability is to provide a mechanism to assist assessment of the performance impact of Ada run-time environments. An extensive set of test cases is provided in Ada along with a fewer number of functionally equivalent JOVIAL and FORTRAN tests. Five versions of each Ada test are supplied to reveal the effect of constraint checking, of exception handlers, and of various optimization options. The majority of tests are designed to exercise individual features of the Ada language. A consistent test methodology was developed and used to ensure to the extent possible that performance measurements taken are complete, accurate, repeatable, and isolated from irrelevant factors. A common language test support interface was defined which permitted development of a capability to automatically compare the run-time performance of different compilers across the three test languages.

Performance evaluations of Ada run-time environments must be made in accordance with the requirements of specific applications. Performance issues and selection criteria for Ada run-time environments are dependent not only upon the specific application concerns but on the general type of application. For example, for applications on computers with general purpose operating systems, the performance of Ada tasking may be of little concern. For DEC VAX/VMS, commonly available Ada implementations map all Ada tasks in an executing program into the same VMS process. Due to the virtual memory nature of VMS, this is an inherently inefficient implementation in that a single disk page-fault will halt all Ada tasks from executing until the fault is satisfied. The key performance concern will not be how efficiently tasking is implemented within a single VMS process but whether the Ada compiler permits use of VMS tasking system services. On the other hand, for Ada implementations on target machines such as the MIL-STD 1750A with no underlying executive or operating system, the implementation of Ada tasking will be of paramount concern.

Functionality and space/time requirements of capabilities provided are two aspects of run-time performance. There are many compiler-dependent features in Ada which are tested in isolation by the ACPS. If these features (e.g., INLINE pragma, representation specifications) are not supported by a compiler, then for certain applications, that compiler can be considered on an a priori basis to be too inefficient to be used. The ACPS only tests features of Ada that are described in the LRM. Some compilers may provide additional pragmas and packages that could have a significant positive impact on performance for specific applications. These compiler-dependent performance enhancements must be considered in any performance evaluation of Ada run-time environments.

The ACPS consists of black box tests designed to test language feature implementation rather than compiler implementation. Just as it is practically impossible to develop black box tests to debug compilers, it is also practically impossible to develop black box benchmarks to explore all performance concerns for a given Ada compiler. Additional tests will need to be developed to investigate the performance ramifications of individual run-time system architectures.

In light of the above comments, it is still our perception that the ACPS test evaluation capability can play an important role in Ada run-time environment evaluations. The performance measures provided can give the user a good first cut estimate of the run-time efficiency of an Ada implementation. They can also furnish the user with a basis for understanding the performance behavior of application oriented benchmarks. Numerous comparison options are provided. One can automatically compare Ada implementations for the same machine architecture to provide quantifiable evidence to justify selection of a clearly superior implementation or to identify several implementations for detailed consideration. One can also get rough estimates of the resource impact of using Ada versus FORTRAN and JOVIAL for those language features for which functionally equivalent tests exist within the ACPS.

In relating performance evaluation to a specific application, a user can select various tests from the ACPS and by varying the test duration can generate a composite test sequence modeling the expected frequency of language feature usage within the application. This composite test sequence can then be used with the test comparison capability to compare the performance of different Ada implementations. The ACPS can also be used in applications planning to demonstrate which features of Ada are inefficiently implemented. This information can then be used in several ways. It can be used as justification for avoiding certain language features or processing options. It can focus attention to those areas of the compiler that must be improved and provide a mechanism for measuring improvements or degradations in run-time performance as a compiler implementation evolves. The ACPS can also be used to assist determination as to whether existing JOVIAL or FORTRAN modules should be converted to Ada by showing the probable performance impact of straightforward translation to Ada as would likely be obtained through use of a language translation tool.

APPENDIX A

ANSI TAPE FORMAT

Four tapes are written in ANSI ASCII "a" character format as volumes ACPS, ACPS02, ACPS03, ACPS04, and ACPS05. The tapes are structured as a multi-file, multi-volume configuration. The different files represent collections of ACPS test programs. Each collection of similar files is grouped together on the tape. Tables A-1 through A-5 contain a complete list of the files in the order they appear on each tape. The ordering of files in a row of each figure is from left to right.

The tapes were written in a VAX/VMS environment at a density of 1600 bpi using the copy command.

Each tape has the following format:

14 - 18 feet of blank tape BOT (Beginning Of Tape) mark VOL1 label = ACPS

HDR1 label HDR2 label

TM (Tape Mark) - start of file

<file 1 block described below>>

TM - end of file

EOF1 label

EOF2 label

TM - inter-file

HDR1 label

HDR2 label

TM - end of file

EOF1 label

EOF2 label

TM - inter-file

... other file blocks ...

TM - inter-file

HDR1 label

HDR2 label

TM

<file n blocks described below>>

TM

EOF1 label

EOF2 label

TM - end of tape 1

TM - end of tape 2

Scratch Tape

EOT (End Of Tape) mark

The HDR1 label is a file description block providing file identifier information and creation dates.

The HDR2 label is a record description block describing the record format of the specific file.

The file blocks are at most 1024 characters in length. Each record within a file block represents a line of text. The first four characters of each record indicate the length of the record. This length includes the four-character length count. For example, a blank line would be represented as "0004" and a line containing the characters "ADA" would be represented as "0007ADA."

The files on the tapes are organized as follows:

Ada test files on volumes ACPS, ACPS02, APCS03, and ACPS04 FORTRAN test files on volumes ACPS04 and ACPS05 JOVIAL test files on volume ACPS05 Test comparison tool files on volume ACPS05

Table A-1 ACPS ANSI Tape Contents Volume ACPS

ADADMP.ADA AF03503.ADA ADAPARM.ADA AF03504.ADA ADASPC.ADA AAOOOOO.ADA AAOPOOO.ADA AF03500.ADA AF03502.ADA AF03509.ADA AF03510.ADA AF03501.ADA AF03513.ADA AF03514.ADA AF03518.ADA AF03512.ADA AF03511.ADA AF03517.ADA AF03601.ADA AF03607.ADA AF03550.ADA AF03602.ADA AF03519.ADA AFD3603.ADA AF03600.ADA AF03604.ADA AF03608.ADA AF03609.ADA AF03605.ADA AF03606.ADA AF03611.ADA AF03612.ADA AF03615.ADA AF03610.ADA AF03613.ADA AF03614.ADA AF03616.ADA AF03631.ADA AF03617.ADA AF03632.ADA AF03619.ADA AF03634.ADA AF03618.ADA AF03633.ADA AF03620.ADA AF03630.ADA AF03635.ADA AF03636.ADA AF03638.ADA AF03637.ADA AF03639.ADA AF03641.ADA AF03642.ADA AF03643.ADA AF03644.ADA AF03650.ADA AF03645.ADA AF03700.ADA AF03647.ADA AF03702.ADA AF03648.ADA AF03649.ADA AF03704.ADA AF03646.ADA AF03701.ADA AF03703.ADA AF03800.ADA AF03801.ADA AF03802.ADA AF03803.ADA AF03804.ADA AF03805.ADA AF04121.ADA AF04127.ADA AF04133.ADA AF04125.ADA AF04120.ADA AF04126.ADA AF04122.ADA AF04129.ADA AF04123.ADA AF04124.ADA AF0412B.ADA AF04130.ADA AF04131.ADA AF0413H.ADA AF04132.ADA AF0413D.ADA AF0413I.ADA AF0413J.ADA AF04310.ADA AF04513.ADA AF04519.ADA AF0451F.ADA AF04312.ADA AF04515.ADA AF04510.ADA AF04516.ADA AF04511.ADA AF04517.ADA AF0413K.ADA AF04311.ADA AF04512.ADA AF04514.ADA AF04518.ADA AF0451C.ADA AF0451D.ADA AF0451A.ADA AF0451B.ADA AF0451H.ADA AF0451Y.ADA AF04529.ADA AF0451E.ADA AF0451G.ADA AF0451I.ADA AF0451J.ADA AF0451H.ADA AF04522.ADA AF0451X.ADA AF04527.ADA AF04520.ADA AF0451V.ADA AF0451Z.ADA AF04521.ADA AF04532.ADA AF04530.ADA AF04531.ADA AF04536.ADA AF0453C.ADA AF04553.ADA AF04533.ADA AF04534.ADA AF04535.ADA AF04537.ADA AF04539.ADA AF04538.ADA AF0453A.ADA AF0453B.ADA AF04540.ADA AF04541.ADA AF04555.ADA AF04550.ADA AF04554.ADA AF0455N.ADA AF04551.ADA AF04552.ADA AF04557.ADA AF04562.ADA AF04558.ADA AF04556.ADA AF04559.ADA AF04550.ADA AF04563.ADA AF04601.ADA AF04560.ADA AF04600.ADA AF04602.ADA AF0460J.ADA AF0460E.ADA AF0460M.ADA AF0460F.ADA AF0460G.ADA AF0460H.ADA AF04601.ADA AF05201.ADA AF05207.ADA AF05203.ADA AF05200.ADA AF05202.ADA AF05205.ADA AF0520B.ADA AF05204.ADA AF05206.ADA AF05208.ADA AF05209.ADA AF0520M.ADA AF05212.ADA AF05200.ADA AF05213.ADA AF0520R.ADA AF05214.ADA AF0520S.ADA AF05215.ADA AF0520A.ADA AF05211.ADA AF05210.ADA AF0521K.ADA AF05303.ADA AF05400.ADA AF0521N.ADA AF05305.ADA AF0521H.ADA AF05211.ADA AF0521J.ADA AF0521L.ADA AF05304.ADA AF05401.ADA AF05407.ADA AF05300.ADA AF05301.ADA AF05302.ADA AF05307.ADA AF05404.ADA AF05308.ADA AF05405.ADA AF05402.ADA AF05306.ADA AF05403.ADA AF05406.ADA AF05408.ADA AF05501.ADA AF05502.ADA AF05503.ADA AF05504.ADA AF05505.ADA AF05506.ADA AF05507.ADA AF05508.ADA AF0550B.ADA AF0550C.ADA AF05509.ADA AF0550A.ADA AF0550D.ADA AF0550E.ADA AF0550F.ADA AF06001.ADA AF06009.ADA AF06010.ADA AF06014.ADA AF06022.ADA AF06015.ADA AF06023.ADA AF06011.ADA AF06013.ADA AF06016.ADA AF06017.ADA AF06019.ADA AF06024.ADA AF06025.ADA AF06018.ADA AF06029.ADA AF06030.ADA AF06045.ADA AF06031 . ADA AF06026.ADA AF06032.ADA AF06027.ADA AF06033.ADA AF06028.ADA AF06043.ADA AF06044.ADA AF06046.ADA AF06049.ADA AF06051.ADA AF06047.ADA AF06048.ADA AF06050.ADA AF06052.ADA AF06061.ADA AF06067.ADA AF06062.ADA AF06068.ADA AF06063.ADA AF06069.ADA AF06064.ADA AF06053.ADA AF06060.ADA AF06066.ADA AF06070.ADA AF06065.ADA AF06071.ADA AF06073.ADA AF06079.ADA AF06075.ADA AF06076.ADA AF06072.ADA AF06074.ADA AF06077.ADA AF06078.ADA AFR6100.ADA AF06101.ADA AF06108.ADA AF06109.ADA AF06110.ADA AF06111.ADA AF06117.ADA AF06112.ADA AF06113.ADA AFD6114.ADA AF06115.ADA AF06119.ADA AF06122.ADA AF06116.ADA AF06118.ADA AF06133.ADA AF06139.ADA AF06132.ADA AF06135.ADA AF06137.ADA AF06134.ADA AF06136.ADA AF06138.ADA AF06140.ADA AF06147.ADA AF06142.ADA AF06148.ADA AF06143.ADA AF06144.ADA AF06150.ADA AF06145.ADA AF06146.ADA AF06149.ADA AF06152.ADA AF06153.ADA AF06154.ADA AF06155.ADA AF06156.ADA AF06157.ADA AF06159.ADA AF06164.ADA AF06170.ADA AF06177.ADA AF06158.ADA AF06163.ADA AF06160.ADA AF06162.ADA AF06166.ADA AF06173.ADA AF06179.ADA AF06168.ADA AF06165.ADA AF06167.ADA AF06169.ADA AF06172.ADA AF06174.ADA AF06175.ADA AF06176.ADA AF06180.ADA AF06182.ADA AF06178.ADA AF06183.ADA AF06184.ADA AF06185.ADA AF06187.ADA AF06193.ADA AF06188.ADA AF06186.ADA AF06189.ADA AF06190.ADA AF06191.ADA AF06192.ADA AF06194.ADA AF06195.ADA AF06196.ADA AF0619C.ADA AF0619I.ADA AF06197.ADA AF06198.ADA AF0619B.ADA AF06199.ADA AF0619A.ADA AF0619F.ADA AF0619L.ADA AF0619D.ADA AF0619G.ADA AF0619M.ADA AF0619E.ADA AF0619H.ADA AF0619K.ADA AF0619N.ADA AF06190.ADA AF0619J.ADA AF0619P.ADA AF06422.ADA AF06428.ADA AF06423.ADA AF06424.ADA AF0619Q.ADA AF0619R.ADA AF06429.ADA AF06425.ADA AF06426 . ADA AF06427.ADA AF0642A.ADA AF06803.ADA AF06807.ADA AF0642B.ADA AF06802.ADA AF06806.ADA AF06808.ADA AF0680A.ADA AF06810.ADA AF0680B.ADA AF06811.ADA AF0680D.ADA AF06809.ADA AF0680C.ADA AF068DE.ADA AF06814.ADA AF06815.ADA AF06816.ADA AF0680F.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

AF06817.ADA	AF06818.ADA	AF06819.ADA	AF06820.ADA	AF06821.ADA	AF06822.ADA
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		AFOOEOE ADA			
AF09503.ADA	AF09504.ADA	AF09505.ADA	AF09506.ADA	AF09507.ADA	AF09508.ADA
AF09509.ADA	AF09600.ADA	AF09601.ADA	AF09602.ADA	AF09603.ADA	AF09604.ADA
AF09605.ADA	AF09606.ADA	AF09607.ADA	AF09710.ADA	AF09711.ADA	AF09712.ADA
AF09713.ADA	AF09720.ADA	AF09721.ADA	AF09731.ADA	AF09900.ADA	AF09901.ADA
AF09902.ADA	AF09903.ADA	AF09B01.ADA	AFOC100.ADA	AFOC101.ADA	AFOC102.ADA
AFOC103.ADA	AFOC300.ADA	AFOC301.ADA	AFOC302.ADA	AF0C303.ADA	AFOC304.ADA
AFOC305.ADA	AFOC306.ADA	AFDC307.ADA	AFOD720.ADA	AFOD721.ADA	AFOD727.ADA
AFOD728.ADA	AFOD729.ADA	AFOD72D.ADA	AFOPOOO.ADA	AFD3551.ADA	AFD412A.ADA
AFD412C.ADA	AFD412D.ADA	AFD4135.ADA	AFD4136.ADA	AFD4137.ADA	AFD4138.ADA
AFD4139.ADA	AFD413A.ADA	AFD413B.ADA	AFD413C.ADA	AFD413E.ADA	AFD413G.ADA
AFD451K.ADA	AFD451L.ADA	AFD451M.ADA	AFD451N.ADA	AFD4510.ADA	AFD451P.ADA
AFD451Q.ADA	AFD451R.ADA	AFD451S.ADA	AFD4523.ADA	AFD4524.ADA	AFD4525.ADA
AFD4526.ADA		AFD452A.ADA			
	AFD4528.ADA		AFD455D.ADA	AFD455E.ADA	AFD455F.ADA
AFD455G.ADA	AFD455I.ADA	AFD455J.ADA	AFD455K.ADA	AFD455L.ADA	AFD4566.ADA
AFD4567.ADA	AFD4568.ADA	AFD4569.ADA	AFD4603.ADA	AFD4604.ADA	AFD4605.ADA
AFD4606.ADA	AFD4607.ADA	AFD4608.ADA	AFD4609.ADA	AFD460A.ADA	AFD460B.ADA
AFD460K.ADA	AFD460L.ADA	AFD460N.ADA	AFD4600.ADA	AFD4800.ADA	AFD4801.ADA
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AFD520F.ADA	AFD520G.ADA	AFD520H.ADA	AFD520I.ADA	AFD520J.ADA	AFD520N.ADA
AFD520P.ADA	AFD520Q.ADA	AFD5218.ADA	AFD5219.ADA	AFD521A.ADA	AFD521B.ADA
AFD521C.ADA	AFD521D.ADA	AFD521E.ADA	AFD521F.ADA	AFD521K.ADA	AFD521M.ADA
AFD5210.ADA	AFD521P.ADA	AFD6201.ADA	AFD6209.ADA	AFD6210.ADA	AFD6211.ADA
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AFD6219.ADA	AFD6222.ADA	AFD6223.ADA	AFD6224.ADA	AFD6225.ADA	AFD6226.ADA
AFD6227.ADA	AFD6228.ADA	AFD6229.ADA	AFD6230.ADA	AFD6231.ADA	AFD6232.ADA
AFD6233.ADA	AFD6243.ADA	AFD6244.ADA	AFD6245.ADA	AFD6246.ADA	AFD6247.ADA
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AFD6266.ADA	AFD6267.ADA	AFD6268.ADA	AFD6269.ADA	AFD6270.ADA	AFD6271.ADA
AFD6272.ADA	AFD6273.ADA	AFD6274.ADA	AFD6275.ADA	AFD6276.ADA	AFD6277.ADA
AFD6278.ADA	AFD6279.ADA	AFD6300.ADA			AFD6309.ADA
			AFD6301.ADA	AFD6308.ADA	
AFD6310.ADA	AFD6311.ADA	AFD6312.ADA	AFD6313.ADA	AFD6314.ADA	AFD6315.ADA
AFD6316.ADA	AFD6317.ADA	AFD6318.ADA	AFD6319.ADA	AFD6322.ADA	AFD6332.ADA
AFD6333.ADA	AFD6334.ADA	AFD6335.ADA	AFD6336.ADA	AFD6337.ADA	AFD6338.ADA
AFD6339.ADA	AFD6340.ADA	AFD6342.ADA	AFD6343.ADA	AFD6344.ADA	AFD6345.ADA
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AFD6346.ADA	AFD6347.ADA	AFD6348.ADA	AFD6349.ADA	AFD6350.ADA	AFD6352.ADA
AFD6353.ADA	AFD6354.ADA	AFD6355.ADA	AFD6356.ADA	AFD6357.ADA	AFD6358.ADA
AFD6359.ADA	AFD6360.ADA	AFD6362.ADA	AFD6363.ADA	AFD6364.ADA	AFD6365.ADA
AFD6366.ADA	AFD6367.ADA	AFD6368.ADA	AFD6369.ADA	AFD6370.ADA	AFD6372.ADA
AFD6373.ADA	AFD6374.ADA	AFD6375.ADA	AFD6376.ADA	AFD6377.ADA	AFD6378.ADA
AFD6379.ADA	AFD6380.ADA	AFD6382.ADA	AFD6383.ADA	AFD6384.ADA	AFD6385.ADA
AFD6386.ADA	AFD6387.ADA	AFD6388.ADA	AFD6389.ADA	AFD6390.ADA	AFD680G.ADA
AFD680H.ADA	AFD6801.ADA	AFD680J.ADA	AFD9000.ADA	AFD9200.ADA	AFD9C00.ADA
AFD9C01.ADA	AFD9C02.ADA	AFDC104.ADA	AFDC105.ADA	AFDC106.ADA	AFDC107.ADA
AFDC310.ADA	AFDC311.ADA	AFDC313.ADA	AFDC314.ADA	AFDD600.ADA	AFDD601.ADA
AFDD602.ADA	AFDD603.ADA	AFDD604.ADA	AFDD605.ADA	AFDD606.ADA	AFDD607.ADA
AFDD609.ADA	AFDD610.ADA	AFDD611.ADA	AFDD722.ADA	AFDD723.ADA	AFDD724.ADA
AFDD725.ADA	AFDD72A.ADA	AFDD72B.ADA	AFDD72C.ADA	AFDD72E.ADA	AFDD72F.ADA
AFDD72G.ADA	AFDD72H.ADA	AFDD721.ADA	AFDDA01.ADA	AFDDA02.ADA	AFDEOOD.ADA
AFDE201.ADA	AFDE202.ADA	AFDE203.ADA	AFDE204 ADA	AFDE205.ADA	AFDE206.ADA
AFDE207.ADA	AFDE208.ADA	AFDE209.ADA	AFDEZOA.ADA	AFDE211.ADA	AFDE212.ADA
AFDE213.ADA	AFDE214.ADA	AFDE215.ADA	AFDE216.ADA	AFDE220.ADA	AFDE231.ADA
AFDE232.ADA	AFDE233.ADA	AFDE234.ADA	AFDE235.ADA	AFDE236.ADA	AFDE237.ADA
AFDE238.ADA	AFDE239.ADA	AFDE23A.ADA	AFDE241.ADA	AFDE242.ADA	AFDE243.ADA
AFDE244.ADA		AFDE246.ADA	AFDE250.ADA	AFDE401.ADA	AFDE402.ADA
	AFDE245.ADA				
AFDE403.ADA	AFDE404.ADA	AFDE405.ADA	AFDE406.ADA	AFDE407.ADA	AFDE408.ADA
AFDE409.ADA	AFDE40A.ADA	AFDE411.ADA	AFDE412.ADA	AFDE413.ADA	AFDE414.ADA
AFDE415.ADA	AFDE416.ADA	AFDE420.ADA	AFDE431.ADA	AFDE432.ADA	AFDE433.ADA
AFDE434.ADA	AFDE435.ADA	AFDE436.ADA	AFDE437.ADA	AFDE438.ADA	AFDE439.ADA
AFDE43A.ADA	AFDE441.ADA	AFDE442.ADA	AFDE443.ADA	AFDE444.ADA	AFDE445.ADA
AFDE446.ADA	AFDE450.ADA	AFDF000.ADA	AFDF001.ADA	AFDF002.ADA	AFDF003.ADA
AFDF004.ADA	AFDF005.ADA	AFIRST.ADA	AFM9A00.ADA	AFM9A01.ADA	AFM9A02.ADA
AFM9A03.ADA	AFMBOOD.ADA	AFMB001.ADA	AFMB002.ADA	AFMB003.ADA	AFMB004.ADA
				AFMB009.ADA	
AFMB005.ADA	AFMB006.ADA	AFMB007.ADA	AFMBOOB.ADA		AFMB010.ADA
AFMB011.ADA	AFMB012.ADA	AFMB013.ADA	AFMBD14.ADA	AFMB015.ADA	AFMB016.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

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AFMB018.ADA AFMB019.ADA AFMB021.ADA AFMB022.ADA AFMB017.ADA AFMB020.ADA AFMB026.ADA AFMB028.ADA AFMB023.ADA AFMB024.ADA AFMB025.ADA AFMB027.ADA AFMB030.ADA AFMB031.ADA AFMB037.ADA AFMB034.ADA AFMB029.ADA AFMB032.ADA AFMB033.ADA AFMB035.ADA AFMB036.ADA AFMB039.ADA AFMB040.ADA AFMB038.ADA AFMB041.ADA AFN9302.ADA AFN9612.ADA AFN9301.ADA AFMB042.ADA AFMB043.ADA AFMB044.ADA AFN9300.ADA AFN9303.ADA AFN9613.ADA AFN9510.ADA AG0000C.ADA AGD0004.ADA AFN9511.ADA AGOPOOD.ADA AFN9611.ADA AFN9610.ADA AGDODOD . ADA AGD0001.ADA AGDOODZ.ADA AGD0003.ADA AGD0005.ADA AGD0006.ADA AGD0007.ADA AGDOODD.ADA AGNOODF.ADA AL09000.ADA AGD0008.ADA AGD0039.ADA AGD0009.ADA AGD0049.ADA AGDOODE.ADA AGD0019.ADA AGN000H.ADA AGD0029.ADA AGN0001.ADA AGNOOGG. ADA AGNOODK.ADA AL 09100.ADA AL D9200.ADA AL D9223.ADA AL DE2C1.ADA AL DE4C1.ADA AO00102.ADA AO00112.ADA AO00311.ADA AO00311.ADA AO00323.ADA AO00323.ADA AO00323.ADA AO00341.ADA AO00356.ADA AGNODOJ.ADA AL09100.ADA AL09101.ADA AL09111.ADA AL 09000 . ADA AL 09000 . ADA AL D9222 . ADA AL DE2B2 . ADA AL DE4B2 . ADA AD00002 . ADA AD00109 . ADA AD00310 . ADA AD00316 . ADA ALD9202.ADA ALD9232.ADA ALDE2C2.ADA ALDE4C2.ADA AOO0103.ADA ALD9203.ADA ALD9233.ADA ALDE2C5.ADA AL09121.ADA ALD9212.ADA AL09131.ADA ALD9213.ADA ALDEOOD.ADA ALDE2B1.ADA ALDE4C5.ADA A000104.ADA A000114.ADA ALDE2C6.ADA ALDE4C6.ADA ALDE4B1.ADA A000001.ADA A000103.ADA A000113.ADA A000208.ADA A000312.ADA A000318.ADA A000324.ADA A000330.ADA A000336.ADA A000351.ADA A000357.ADA A000108.ADA A000108.ADA A000203.ADA A000305.ADA A000315.ADA A000107.ADA A000202.ADA A000313.ADA A000319.ADA A000319.ADA A000325.ADA A000331.ADA A000337.ADA A000300.ADA A000314.ADA A000316.ADA A000322.ADA A000320.ADA A000326.ADA A000332.ADA A000338.ADA A000347.ADA A000322.ADA A000328.ADA A000334.ADA A000340.ADA A000349.ADA A000355.ADA A000361.ADA A000367.ADA A00036M.ADA A00036M.ADA A000327.ADA A000333.ADA AD00343.ADA AD00352.ADA A000339.ADA A000348.ADA A000354.ADA A000360.ADA A000353.ADA A000359.ADA A000356.ADA A000362.ADA A000357.ADA A000363.ADA A000358.ADA A000364.ADA A000366.ADA A00036F.ADA A00036L.ADA A000369.ADA A000361.ADA A00036U.ADA A00036A.ADA A00036J.ADA A00036V.ADA A000365.ADA A000368.ADA A00036H.ADA A00036H.ADA A00036H.ADA A000376.ADA A000403.ADA A000507.ADA A00036B.ADA A00036K.ADA A000374.ADA A000391.ADA A000503.ADA A000513.ADA A000603.ADA A000377.ADA A000404.ADA A000508.ADA A000518.ADA A000375.ADA A000402.ADA A000504.ADA ADDO36W.ADA A000378.ADA A000390.ADA A000502.ADA A000500.ADA A000509.ADA A000504.ADA A000514.ADA A000604.ADA A000704.ADA A000710.ADA A000717.ADA A0D0344.ADA A0D0360.ADA A0D0363.ADA A0D0373.ADA A0D0524.ADA CA00000.ADA CF03504.ADA A000502.ADA A000512.ADA A000602.ADA A000702.ADA A000715.ADA A000721.ADA A0D036D.ADA A0D036S.ADA A0D0371.ADA A000517.ADA A000517.ADA A000605.ADA A000705.ADA A000711.ADA A000718.ADA A000519.ADA A000519.ADA A000607.ADA A000707.ADA A000606.ADA A000706.ADA A000713.ADA A000719.ADA A000703.ADA A000709.ADA A000720.ADA A000716.ADA A000718.ADA A0D0345.ADA A0D036P.ADA A0D036Y.ADA A0D0380.ADA A0D0525.ADA CA0P000.ADA CF03509.ADA CF03507.ADA CF03602.ADA AOOPOOO.ADA AODO36E.ADA AODO36T.ADA AODO372.ADA AOD0346.ADA AOD036C.ADA AODO36Q.ADA AODO36Z.ADA AODO36R.ADA AODO370.ADA AODO381.ADA AOD0382.ADA AUDU382.ADA AUDU3527.ADA CF03501.ADA CF03511.ADA CF03519.ADA CF03604.ADA A0D0383.ADA A0D0528.ADA A0D0523.ADA A0D0529.ADA A0D0526.ADA CF03500.ADA CF03503.ADA CF03513.ADA CF03600.ADA CF03502.ADA CF03512.ADA CF03550.ADA CF03605.ADA CF03504.ADA CF03510.ADA CF03518.ADA CF03603.ADA CF03609.ADA CF03615.ADA CF03630.ADA CF03636.ADA CF03643.ADA CF03514.ADA CF03601.ADA CF03607.ADA CF03613.ADA CF03606.ADA CF03612.ADA CF03608.ADA CF03614.ADA CF03620.ADA CF03635.ADA CF03611.ADA CF03616.ADA CF03617.ADA CF03632.ADA CF03638.ADA CF03618.ADA CF03633.ADA CF03619.ADA CF03634.ADA CF03631.ADA CF03637.ADA CF03641.ADA CF03647.ADA CF03702.ADA CF03803.ADA CF03642.ADA CF03639.ADA CF03644.ADA CF03646.ADA CF03701.ADA CF03802.ADA CF03645.ADA CF03700.ADA CF03648.ADA CF03703.ADA CF03649.ADA CF03650.ADA CF03704.ADA CF03800.ADA CF04120.ADA CF04126.ADA CF04132.ADA CF0413K.ADA CF03801.ADA CF03804.ADA CF03805.ADA CF04122.ADA CF04129.ADA CF0413D.ADA CF04123.ADA CF0412B.ADA CF0413H.ADA CF04125 . ADA CF04121.ADA CF04127.ADA CF04133.ADA CF04124.ADA CF04131.ADA CF0413J.ADA CF04130.ADA CF0413I.ADA CF04312.ADA CF04515.ADA CF0451B.ADA CF04310.ADA CF04311.ADA CF04510.ADA CF04511.ADA CF04512.ADA CF04513.ADA CF04514.ADA CF0451A.ADA CF04516.ADA CF0451C.ADA CF04517.ADA CF0451D.ADA CF04518.ADA CF04519.ADA CF0451E.ADA CF0451H.ADA CF0451Y.ADA CF04529.ADA CF0451F.ADA CF0451H.ADA CF0451G.ADA CF0451X.ADA CF0451V.ADA CF04521.ADA CF0451I.ADA CF0451J.ADA CF0451Z.ADA CF04530.ADA CF04520.ADA CF04531.ADA CF04537.ADA CF04527.ADA CF04532.ADA CF04522.ADA CF04536.ADA CF0453C.ADA CF04533.ADA CF04534.ADA CF04535.ADA CF04538.ADA CF04539.ADA CF0453A.ADA CF04551.ADA CF0453B.ADA CF04540.ADA CF04541.ADA CF04552.ADA CF04550.ADA CF04553.ADA CF04554.ADA CF04555.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

CF04556.ADA	CF04557.ADA	CF04558.ADA	CF04559.ADA	CF0455N.ADA	CF04550.ADA
				CF04601.ADA	CF04602.ADA
CF04560.ADA	CF04562.ADA	CF04563.ADA	CF04600.ADA		
CF046DE.ADA	CF0460F.ADA	CF046DG.ADA	CF0460H.ADA	CF0460I.ADA	CF0460J.ADA
CF0460M.ADA	CF05200.ADA	CF05201.ADA	CF05202.ADA	CF05203.ADA	CF05204.ADA
CF05205.ADA	CF05206.ADA	CF05207.ADA	CF05208.ADA	CF05209.ADA	CF0520A.ADA
	CF0520M.ADA	CF05200.ADA	CF0520R.ADA	CF0520S.ADA	CF05210.ADA
CF0520B.ADA					
CF05211.ADA	CF05212.ADA	CF05213.ADA	CF05214.ADA	CF05215.ADA	CF0521H.ADA
CF0521I.ADA	CF0521J.ADA	CF0521K.ADA	CF0521L.ADA	CF0521N.ADA	CF05300.ADA
CF05301.ADA	CF05302.ADA	CF05303.ADA	CF05304.ADA	CF05305.ADA	CF05306.ADA
CF05307.ADA	CF05308.ADA	CF05400.ADA	CF05401.ADA	CF05402.ADA	CF05403.ADA
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CF05502.ADA	CF05503.ADA	CF05504.ADA	CF05505.ADA	CF05506.ADA	CF05507.ADA
CF05508.ADA	CF05509.ADA	CF0550A.ADA	CF0550P.ADA	CF0550C.ADA	CF0550D.ADA
CF0550E.ADA	CF0550F.ADA	CF06001.ADA	CF06009.ADA	CF06010.ADA	CF06011.ADA
CF06013.ADA		CF06015.ADA	CF06016.ADA	CF06017.ADA	CF06018.ADA
	CF06014.ADA				
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CF06027.ADA	CF06028.ADA	CF06029.ADA	CF06030.ADA	CF06031.ADA	CF06032.ADA
CFD6033.ADA	CF06043.ADA	CF06044.ADA	CFD6045.ADA	CF06046.ADA	CF06047.ADA
CF06048.ADA	CF06049.ADA	CF06050.ADA	CF06051.ADA	CF06052.ADA	CF06053.ADA
CF06060.ADA			CF06063.ADA		CF06065.ADA
	CF06061.ADA	CF06062.ADA		CF06064.ADA	
CF06066.ADA	CF06067.ADA	CF06068.ADA	CF06069.ADA	CF06070.ADA	CF06071.ADA
CF06072.ADA	CF06073.ADA	CF06074.ADA	CF06075.ADA	CF06076.ADA	CF06077.ADA
CF06078.ADA	CF06079.ADA	CF06100.ADA	CF06101.ADA	CF06108.ADA	CF06109.ADA
CF06110.ADA	CF06111.ADA	CF06112.ADA	CF06113.ADA	CF06114.ADA	CF06115.ADA
CF06116.ADA			CF06119.ADA		CF06132.ADA
	CF06117.ADA	CF06118.ADA		CF06122.ADA	
CF06133.ADA	CF06134.ADA	CF06135.ADA	CF06136.ADA	CF06137.ADA	CF06138.ADA
CF06139.ADA	CF06140.ADA	CF06142.ADA	CF06143.ADA	CF06144.ADA	CF06145.ADA
CF06146.ADA	CF06147.ADA	CF06148.ADA	CF06149.ADA	CF06150.ADA	CF06152.ADA
CF06153.ADA	CF06154.ADA	CF06155.ADA	CF06156.ADA	CF06157.ADA	CF06158.ADA
CF06159.ADA	CF06160.ADA	CF06162.ADA	CF06163.ADA	CF06164.ADA	CF06165.ADA
CF06166.ADA	CF06167.ADA	CF06168.ADA	CF06169.ADA	CF06170.ADA	CF06172.ADA
CF06173.ADA	CF06174.ADA	CF06175.ADA	CF06176.ADA	CF06177.ADA	CF06178.ADA
CF06179.ADA	CF06180.ADA	CF06182.ADA	CF06183.ADA	CF06184.ADA	CF06185.ADA
CF06186.ADA	CF06187.ADA	CF06188.ADA	CF06189.ADA	CF06190.ADA	CF06191.ADA
CF06192.ADA	CF06193.ADA	CF06194.ADA	CF06195.ADA	CF06196.ADA	CF06197.ADA
CF06198.ADA	CF06199.ADA	CF0619A.ADA	CF0619B.ADA	CF0619C.ADA	CF0619D.ADA
CF0619E.ADA	CF0619F.ADA	CF0619G.ADA	CF0619H.ADA	CF0619I.ADA	CF0619J.ADA
CF0619K.ADA	CF0619L.ADA	CF0619M.ADA	CF0619N.ADA	CF06190.ADA	CF0619P.ADA
CF0619Q.ADA	CF0619R.ADA	CF06422.ADA	CF06423.ADA	CF06424.ADA	CF06425.ADA
CF06426.ADA	CF06427.ADA	CF06428.ADA	CF06429.ADA	CF0642A.ADA	CF0642B.ADA
CF06802.ADA	CF06803.ADA	CF06806.ADA	CF06807.ADA	CF06808.ADA	CF06809.ADA
CF0680A.ADA	CF0680B.ADA	CF0680C.ADA	CF0680D.ADA	CF0680E.ADA	CF0680F.ADA
CF06810.ADA	CF06811.ADA	CF06814.ADA	CF06815.ADA	CF06816.ADA	CF06817.ADA
CF06818.ADA	CF06819.ADA	CF06820.ADA	CF06821.ADA	CF06822.ADA	CF06823.ADA
CF06824.ADA	CF06825.ADA	CF09500.ADA	CF09501.ADA	CF09502.ADA	CF09503.ADA
CF09504.ADA	CF09505.ADA	CF09506.ADA	CF09507.ADA	CF09508.ADA	CF09509.ADA
CF09600.ADA	CF09601.ADA	CF09602.ADA	CF09603.ADA	CF09604.ADA	CF09605.ADA
CF09606.ADA	CF09607.ADA	CF09710.ADA	CF09711.ADA	CF09712.ADA	CF09713.ADA
CF09720.ADA	CF09721.ADA	CF09731.ADA	CF09900.ADA	CF09901.ADA	CF09902.ADA
CF09903.ADA	CF09B01.ADA	CFOC100.ADA	CFOC101.ADA	CFOC102.ADA	CFOC103.ADA
CFOC300.ADA	CFOC301.ADA	CFOC302.ADA	CF0C303.ADA	CFOC304.ADA	CFOC305.ADA
CEOCZOC ADA	CECCZOZ ADA	CEODOOO ADA	CFD3551.ADA	CFD412A.ADA	CFD412C.ADA
CF0C306.ADA	CFOC307.ADA	CFOPODO.ADA			
CFD412D.ADA	CFD4135.ADA	CFD4136.ADA	CFD4137.ADA	CFD4138.ADA	CFD4139.ADA
CFD413A.ADA	CFD413B.ADA	CFD413C.ADA	CFD413E.ADA	CFD413G.ADA	CFD451K.ADA
CFD451L.ADA	CFD451M.ADA	CFD451N.ADA	CFD4510.ADA	CFD451P.ADA	CFD451Q.ADA
CFD451R.ADA	CFD451S.ADA	CFD4523.ADA	CFD4524.ADA	CFD4525.ADA	CFD4526.ADA
				CFD455F.ADA	
CFD4528.ADA	CFD452A.ADA	CFD455D.ADA	CFD455E.ADA		CFD455G.ADA
CFD455I.ADA	CFD455J.ADA	CFD455K.ADA	CFD455L.ADA	CFD4566.ADA	CFD4567.ADA
CFD4568.ADA	CFD4569.ADA	CFD4603.ADA	CFD4604.ADA	CFD4605.ADA	CFD4606.ADA
CFD4607.ADA	CFD4608.ADA	CFD4609.ADA	CFD460A.ADA	CFD460B.ADA	CFD460K.ADA
CFD460L.ADA	CFD460N.ADA	CFD4600.ADA	CFD4800.ADA	CFD4801.ADA	CFD4802.ADA
CFD4803.ADA	CFD4804.ADA	CFD520C.ADA	CFD520D.ADA	CFD520E.ADA	CFD520F.ADA
CFD520G.ADA	CFD520H.ADA	CFD520I.ADA	CFD520J.ADA	CFD520N.ADA	CFD520P.ADA
CFD520Q.ADA	CFD5218.ADA	CFD5219.ADA	CFD521A.ADA	CFD521B.ADA	CFD521C.ADA
CFD521D.ADA	CFD521E.ADA	CFD521F.ADA	CFD521K.ADA	CFD521M.ADA	CFD5210.ADA
CFD521P.ADA	CFD6201.ADA	CFD6209.ADA	CFD6210.ADA	CFD6211.ADA	CFD6213.ADA
CFD6214.ADA	CFD6215.ADA	CFD6216.ADA	CFD6217.ADA	CFD6218.ADA	CFD6219.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

CFD6224.ADA CFD6230.ADA CFD6227.ADA CFD6226.ADA CFD6222.ADA CFD6223.ADA CFD6225.ADA CFD6232.ADA CFD6247.ADA CFD6228.ADA CFD6229.ADA CFD6231.ADA CFD6233.ADA CFD6243.ADA CFD6244.ADA CFD6245.ADA CFD6246.ADA CFD6248.ADA CFD6249.ADA CFD6250.ADA CFD6251.ADA CFD6252.ADA CFD6253.ADA CFD6260.ADA CFD6263.ADA CFD6269.ADA CFD6275.ADA CFD6264.ADA CFD6270.ADA CFD6276.ADA CFD6265.ADA CFD6271.ADA CFD6277.ADA CFD6261.ADA CFD6267.ADA CFD6266.ADA CFD6262.ADA CFD6268.ADA CFD6272.ADA CFD6278.ADA CFD6273.ADA CFD6274.ADA CFD6300.ADA CFD6308.ADA CFD6314.ADA CFD6322.ADA CFD6279.ADA CFD6311.ADA CFD6301.ADA CFD6313.ADA CFD6310.ADA CFD6316.ADA CFD6309.ADA CFD6312.ADA CFD6315.ADA CFD6317.ADA CFD6318.ADA CFD6319.ADA CFD6332.ADA CFD6333.ADA CFD6337.ADA CFD6344.ADA CFD6334.ADA CFD6335.ADA CFD6342.ADA CFD6336.ADA CFD6343.ADA CFD6338.ADA CFD6345.ADA CFD6339.ADA CFD6340.ADA CFD6346.ADA CFD6347.ADA CFD6349.ADA CFD6350.ADA CFD6352.ADA CFD6348.ADA CFD6353.ADA CFD6357.ADA CFD6364.ADA CFD6354.ADA CFD6360.ADA CFD6356.ADA CFD6363.ADA CFD6358.ADA CFD6365.ADA CFD6355.ADA CFD6359.ADA CFD6362.ADA CFD6366.ADA CFD6370.ADA CFD6377.ADA CFD6367.ADA CFD6374.ADA CFD6368.ADA CFD6375.ADA CFD6373.ADA CFD6369.ADA CFD6372.ADA CFD6378.ADA CFD6385.ADA CFD6379.ADA CFD6376.ADA CFD6384.ADA CFD6382.ADA CFD6388.ADA CFD6383.ADA CFD6380.ADA CFD6386.ADA CFD6387.ADA CFD680I.ADA CFD6390.ADA CFD9200.ADA CFD6389.ADA CFD680H.ADA CFD680G.ADA CFD680J.ADA CFD9000.ADA CFD9C00.ADA CFD9C01.ADA CFDC107.ADA CFDD601.ADA CFDD607.ADA CFDC104.ADA CFDC313.ADA CFDC310.ADA CFD9C02.ADA CFDC105.ADA CFDC106.ADA CFDC311.ADA CFDC314.ADA CFDD600.ADA CFDD602.ADA CFDD609.ADA CFDD603.ADA CFDD604.ADA CFDD605.ADA CFDD606.ADA CFDD610.ADA CFDD611.ADA CFDDA01.ADA CFDDA02.ADA CFDE000.ADA CFDE201.ADA CFDE203.ADA CFDE209.ADA CFDE207.ADA CFDE213.ADA CFDE204.ADA CFDE20A.ADA CFDE202.ADA CFDE205.ADA CFDE206.ADA CFDE211.ADA CFDE220.ADA CFDE212.ADA CFDE208.ADA CFDE231.ADA CFDE214.ADA CFDE215.ADA CFDE216.ADA CFDE232.ADA CFDE237.ADA CFDE243.ADA CFDE234.ADA CFDE23A.ADA CFDE246.ADA CFDE235.ADA CFDE241.ADA CFDE250.ADA CFDE233.ADA CFDE239.ADA CFDE236.ADA CFDE242.ADA CFDE238.ADA CFDE244.ADA CFDE401.ADA CFDE245.ADA CFDE402.ADA CFDE403.ADA CFDE406.ADA CFDE412.ADA CFDE407.ADA CFDE413.ADA CFDE409.ADA CFDE404.ADA CFDE405.ADA CFDE408.ADA CFDE40A.ADA CFDE414.ADA CFDE415.ADA CFDE411.ADA CFDE432.ADA CFDE438.ADA CFDE420.ADA CFDE436.ADA CFDE431.ADA CFDE433.ADA CFDE434.ADA CFDE416.ADA CFDE435.ADA CFDE437.ADA CFDE439.ADA CFDE43A.ADA CFDE442.ADA CFDF000.ADA CFDE443.ADA CFDE445.ADA CFDE446 . ADA CFDE441.ADA CFDE444.ADA CFDF001.ADA CFDF003.ADA CFDF002.ADA CFDF004.ADA CFDE450.ADA CFM9A02.ADA CFM9A03.ADA CFDF005.ADA CFM9ADO.ADA CFM9A01.ADA CFMB000.ADA CFMB002.ADA CFMB012.ADA CFMB003.ADA CFMB005.ADA CFMB010.ADA CFMB001.ADA CFMB004.ADA CFMB013.ADA CFMB014.ADA CFMB015.ADA CFMB016.ADA CFMB011.ADA CFMB017.ADA CFMB020.ADA CFMB018.ADA CFMB019.ADA CFMB029.ADA CFMB030.ADA CFMB035.ADA CFMB031.ADA CFMB032.ADA CFMB033.ADA CFMB034.ADA CFMB036.ADA CFMB042.ADA CFMB044.ADA CFMB043.ADA CFN9300.ADA CFN9301.ADA CFMB041.ADA CFN9610.ADA CFN9303.ADA CFN9510.ADA CFN9611.ADA CFN9302.ADA CFN9511.ADA CGOPOOO.ADA CGDOOO5.ADA CGDOOOE.ADA CGD0001.ADA CFN9612.ADA CFN9613.ADA CG0000C.ADA CGD0000.ADA CGD0004.ADA CGD0002.ADA CGD0003.ADA CGD0006.ADA CGD0019.ADA CGD0007.ADA CGDOOOD. ADA CGD0009.ADA CGD0029.ADA CGD0049.ADA CGN000F.ADA CGNODDH.ADA CGNODOI.ADA CGD0039.ADA CGNDODG.ADA CL09101.ADA CL09101.ADA CLD9202.ADA CLD9232.ADA CLDE2C2.ADA CLDE4C2.ADA CL09100.ADA CLD9200.ADA CGN000J.ADA CGN000K.ADA CL09000.ADA CL09111.ADA CLOPODO.ADA CLD9222.ADA CLDE2B2.ADA CLD9203.ADA CLD9233.ADA CL09121.ADA CL09131.ADA CLD9223.ADA CLDE2C1.ADA CLDE4C1.ADA CLD9213.ADA CLDE2B1.ADA CLDE4B1.ADA CL D9212.ADA CLDE2C5.ADA CLDE4C5.ADA CL DEODO. ADA CL DE2C6. ADA CLDE4B2.ADA COODDOZ.ADA C000001.ADA C000102.ADA C000104.ADA CLDE4C6.ADA C000103.ADA C000107.ADA C000202.ADA C000108.ADA C000109.ADA C000112.ADA C000113.ADA C000114.ADA C000203.ADA C000204.ADA C000208.ADA C000312.ADA C000207.ADA C000209.ADA C000311.ADA C000317.ADA C000305.ADA C000310.ADA C000313.ADA C000300.ADA C000319.ADA C000325.ADA C000316.ADA C000322.ADA C000314.ADA C000315.ADA C000318.ADA C000320.ADA C000321.ADA C000327.ADA C000324.ADA C000323.ADA C000328 . ADA C000329.ADA C000331.ADA C000330.ADA C000326.ADA C000333.ADA C000335.ADA C000336.ADA C000337.ADA C000332.ADA C000334.ADA C000338.ADA C000342.ADA C000339.ADA C000340.ADA C000341.ADA C000343.ADA C000352.ADA C000348.ADA C000350.ADA C000351 . ADA C000349.ADA C000347.ADA C000358.ADA C000353.ADA C000354.ADA C000355.ADA C000356.ADA C000357.ADA C000363.ADA C000361.ADA C000362.ADA C000359.ADA C000360.ADA C000364.ADA C000367 . ADA C000368.ADA C000369.ADA CO0036A.ADA C000366.ADA C000365.ADA C00036B.ADA CO0036F.ADA CO0036G.ADA CO0036H.ADA C000361.ADA C00036J.ADA CODD36U.ADA COOD36K.ADA CD0036L.ADA CO0036M.ADA CO0036N.ADA CO0036V.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

COOO36H.ADA	C000374.ADA	C000375.ADA	C000376.ADA	CD00377.ADA	C000378.ADA
C000390.ADA	C000391.ADA	C000402.ADA	C000403.ADA	C000404.ADA	C000500.ADA
			COUDTOS.ADA		
C000502.ADA	C000503.ADA	C000504.ADA	C000507.ADA	C000508.ADA	C000509.ADA
C000512.ADA	C000513.ADA	C000514.ADA	CD00517.ADA	C000518.ADA	C000519.ADA
C000602.ADA	C000603.ADA	C000604.ADA	C000605.ADA	C000606.ADA	C000607.ADA
C000702.ADA	C000703.ADA	C000704.ADA	C000705.ADA	C000706.ADA	C000707.ADA
C000708.ADA	C000709.ADA	C000710.ADA	C000711.ADA	C000713.ADA	C000714.ADA
C000715.ADA	C000716.ADA	C000717.ADA	C000718.ADA	C000719.ADA	C000720.ADA
C000721.ADA	COOPODO.ADA	COD0344.ADA	COD0345.ADA	COD0346.ADA	COD036C.ADA
CODO36D.ADA	COD036E.ADA	COD0360.ADA	COD036P.ADA	COD036Q.ADA	CODO36R.ADA
COD036S.ADA	CODO36T.ADA	COD036X.ADA	CODO36Y.ADA	CODO36Z.ADA	COD0370.ADA
COD0371.ADA	COD0372.ADA	COD0373.ADA	COD0380.ADA	COD0381.ADA	CDD0382.ADA
CODO383.ADA	COD0523.ADA	COD0524.ADA	COD0525.ADA	COD0526.ADA	COD0527.ADA
CDD0528.ADA	COD0529.ADA	EA00000.ADA	EAOPOOD.ADA	EF03500.ADA	EF03501.ADA
EF03502.ADA	EF03503.ADA	EF03504.ADA	EF03509.ADA	EF03510.ADA	EF03511.ADA
EF03512.ADA	EF03513.ADA	EF03514.ADA	EF03517.ADA	EF03518.ADA	EF03519.ADA
EF03550.ADA	EF03600.ADA	EF03601.ADA	EF03602.ADA	EF03603.ADA	EF03604.ADA
EF03605.ADA	EF03606.ADA	EF03607.ADA	EF03608.ADA	EF03609.ADA	EF03610.ADA
EF03611.ADA	EF03612.ADA	EF03613.ADA	EF03614.ADA	EF03615.ADA	EF03616.ADA
EF03617.ADA	EF03618.ADA	EF03619.ADA	EF03620.ADA	EF03630.ADA	EF03631.ADA
EF03632.ADA	EF03633.ADA	EF03634.ADA			EF03637.ADA
			EF03635.ADA	EF03636.ADA	
EF03638.ADA	EF03639.ADA	EF03641.ADA	EF03642.ADA	EF03643.ADA	EF03644.ADA
EF03645.ADA	EF03646.ADA	EF03647.ADA	EF03648.ADA	EF03649.ADA	EF03650.ADA
EF03700.ADA		EF03702,ADA		EF03704.ADA	EF03800.ADA
	EF03701.ADA		EF03703.ADA		
EF03801.ADA	EF03802.ADA	EF03803.ADA	EF03804.ADA	EF03805.ADA	EF04120.ADA
EF04121.ADA	EF04122.ADA	EF04123.ADA	EF04124.ADA	EF04125.ADA	EF04126.ADA
EF04127.ADA	EF04129.ADA	EF0412B.ADA	EF04130.ADA	EF04131.ADA	EF04132.ADA
EF04133.ADA	EF0413D.ADA	EF0413H.ADA	EF0413I.ADA	EF0413J.ADA	EF0413K.ADA
EF04310.ADA	EF04311.ADA	EF04312.ADA	EF04510.ADA	EF04511.ADA	EF04512.ADA
EF04513.ADA	EF04514.ADA	EF04515.ADA	EF04516.ADA	EF04517.ADA	EF04518.ADA
EF04519.ADA	EF0451A.ADA	EF0451B.ADA	EF0451C.ADA	EF0451D.ADA	EF0451E.ADA
EF0451F.ADA	EF0451G.ADA	EF0451H.ADA	EF0451I.ADA	EF0451J.ADA	EF0451V.ADA
EF0451W.ADA	EF0451X.ADA	EF0451Y.ADA	EF0451Z.ADA	EF04520.ADA	EF04521.ADA
EF04522.ADA	EF04527.ADA	EF04529.ADA	EF04530.ADA	EF04531.ADA	EF04532.ADA
EF04533.ADA	EF04534.ADA	EF04535.ADA	EF04536.ADA	EF04537.ADA	EF04538.ADA
EF04539.ADA	EF0453A.ADA	EF0453B.ADA	EF0453C.ADA	EF04540.ADA	EF04541.ADA
EF04550.ADA	EF04551.ADA	EF04552.ADA	EF04553.ADA	EF04554.ADA	EF04555.ADA
EF04556.ADA	EF04557.ADA	EF04558.ADA	EF04559.ADA	EF0455N.ADA	EF04550.ADA
EF04560.ADA	EF04562.ADA	EF04563.ADA	EF04600.ADA	EF04601.ADA	EF04602.ADA
EF0460E.ADA	EF0460F.ADA	EF0460G.ADA	EF0460H.ADA	EF0460I.ADA	EF0460J.ADA
EF0460M.ADA	EF05200.ADA	EF05201.ADA	EF05202.ADA	EF05203.ADA	EF05204.ADA
EF05205.ADA	EF05206.ADA	EF05207.ADA	EF05208.ADA	EF05209.ADA	EF0520A.ADA
EF0520B.ADA	EF0520M.ADA	EF05200.ADA	EF0520R.ADA	EF0520S.ADA	EF05210.ADA
EF05211.ADA	EF05212.ADA	EF05213.ADA	EF05214.ADA	EF05215.ADA	EF0521H.ADA
EF0521I.ADA	EF0521J.ADA	EF0521K.ADA	EF0521L.ADA	EF0521N.ADA	EF05300.ADA
EF05301.ADA	EF05302.ADA	EF05303.ADA	EF05304.ADA	EF05305.ADA	EF05306.ADA
EF05307.ADA	EF05308.ADA	EF05400.ADA	EF05401.ADA	EF05402.ADA	EF05403.ADA
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EF05404.ADA	EF05405.ADA	EF05406.ADA	EF05407.ADA	EF05408.ADA	EF05501.ADA
EF05502.ADA	EF05503.ADA	EF05504.ADA	EF05505.ADA	EF05506.ADA	EF05507.ADA
EF05508.ADA	EF05509.ADA	EF0550A.ADA	EF0550B.ADA	EF0550C.ADA	EF0550D.ADA
EF0550E.ADA	EF0550F.ADA	EF06001.ADA	EF06009.ADA	EF06010.ADA	EF06011.ADA
EF06013.ADA	EF06014.ADA	EF06015.ADA	EF06016.ADA	EF06017.ADA	EF06018.ADA
EF06019.ADA	EF06022.ADA	EFD6023.ADA	EF06024.ADA	EF06025.ADA	EF06026.ADA
EF06027.ADA	EF06028.ADA	EF06029.ADA	EF06030.ADA	EF06031.ADA	EF06032.ADA
EF06033.ADA	EF06043.ADA	EF06044.ADA	EF06045.ADA	EF06046.ADA	EF06047.ADA
EF06048.ADA	EF06049.ADA	EF06050.ADA	EF06051.ADA	EF06052.ADA	EF06053.ADA
EF06060.ADA	EF06061.ADA	EF06062.ADA	EFD6063.ADA	EF06064.ADA	EF06065.ADA
EF06066.ADA	EF06067.ADA	EF06068.ADA	EF06069.ADA	EF06070.ADA	EF06071.ADA
EF06072.ADA	EF06073.ADA	EF06074.ADA	EF06075.ADA	EF06076.ADA	EF06077.ADA
EF06078.ADA	EF06079.ADA	EF06100.ADA	EFD6101.ADA	EF06108.ADA	EF06109.ADA
EF06110.ADA	EF06111.ADA	EF06112.ADA	EF06113.ADA	EF06114.ADA	EF06115.ADA
EF06116.ADA	EF06117.ADA	EF06118.ADA	EF06119.ADA	EF06122.ADA	EF06132.ADA
EF06133.ADA	EF06134.ADA	EF06135.ADA	EF06136.ADA	EF06137.ADA	EF06138.ADA
EF06139.ADA	EF06140.ADA	EF06142.ADA	EF06143.ADA	EF06144.ADA	EF06145.ADA
EF06146.ADA	EF06147.ADA	EF06148.ADA	EF06149.ADA	EF06150.ADA	EF06152.ADA
EF06153.ADA	EF06154.ADA	EF06155.ADA	EFD6156.ADA	EF06157.ADA	EF06158.ADA
EF06159.ADA	EF06160.ADA	EF06162.ADA	EF06163.ADA	EF06164.ADA	EF06165.ADA
	F. 4010 . WAL		F. 40 7 9 9 4 VAV		P1 40 T Q 3 . WAL

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

EF06166.ADA	EF06167.ADA	EF06168.ADA	EF06169.ADA	EF06170.ADA	EF06172.ADA
					EF06178.ADA
EFD6173.ADA	EF06174.ADA	EF06175.ADA	EF06176.ADA	EF06177.ADA	
EF06179.ADA	EF06180.ADA	EF06182.ADA	EF06183.ADA	EFD6184.ADA	EF06185.ADA
EF06186.ADA	EF06187.ADA	EF06188.ADA	EF06189.ADA	EF06190.ADA	EF06191.ADA
EF06192.ADA	EF06193.ADA	EF06194.ADA	EF06195.ADA	EF06196.ADA	EF06197.ADA
EF06198.ADA	EF06199.ADA	EF0619A.ADA	EF0619B.ADA	EF0619C.ADA	EF0619D.ADA
EF0619E.ADA	EF0619F.ADA	EF0619G.ADA	EF0619H.ADA	EF0619I.ADA	EF0619J.ADA
				=1.7777127	=
EF0619K.ADA	EF0619L.ADA	EF0619M.ADA	EF0619N.ADA	EF06190.ADA	EF0619P.ADA
EF0619Q.ADA	EF0619R.ADA	EF06422.ADA	EF06423.ADA	EF06424.ADA	EF06425.ADA
			LFU0723.ADA		= 1 : : : = : : : : : :
EF06426.ADA	EF06427.ADA	EF06428.ADA	EF06429.ADA	EF0642A.ADA	EF0642B.ADA
EF06802.ADA	EF06803.ADA	EF06806.ADA		EF06808.ADA	EFD6809.ADA
			EF06807.ADA		
EF0680A.ADA	EF0680B.ADA	EF0680C.ADA	EF0680D.ADA	EF0680E.ADA	EF0680F.ADA
EF06810.ADA					
	EF06811.ADA	EF06814.ADA	EF06815.ADA	EF06816.ADA	EF06817.ADA
EF06818.ADA	EF06819.ADA	EF06820.ADA	EF06821.ADA	EF06822.ADA	EF06823.ADA
EF06824.ADA	EF06825.ADA	EF09500.ADA	EF09501.ADA	EF09502.ADA	EF09503.ADA
EF09504.ADA	EF09505.ADA	EF09506.ADA	EF09507.ADA	EF09508.ADA	EF09509.ADA
				= 1 7 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
EF09600.ADA	EF09601.ADA	EF09602.ADA	EF09603.ADA	EF09604.ADA	EF09605.ADA
EF09606.ADA	EF09607.ADA	EF09710.ADA	EF09711.ADA	EF09712.ADA	EF09713.ADA
EF09720.ADA	EF09721.ADA	EF09731.ADA	EF09900.ADA	EF09901.ADA	EF09902.ADA
EF09903.ADA	EF09B01.ADA	EFOC100.ADA	EFOC101.ADA	EFOCIOZ.ADA	EFOC103.ADA
EFOC300.ADA	EFOC301.ADA	EFOC302.ADA	EFOC303.ADA	EFOC304.ADA	EFOC305.ADA
EFOC306.ADA	EFOC307.ADA	EFOPOOO.ADA	EFD3551.ADA	EFD412A.ADA	EFD412C.ADA
EFD412D.ADA	EFD4135.ADA	EFD4136.ADA	EFD4137.ADA	EFD4138.ADA	EFD4139.ADA
EFD413A.ADA	EFD413B.ADA	EFD413C.ADA	EFD413E.ADA	EFD413G.ADA	EFD451K.ADA
EFD451L.ADA	EFD451M.ADA	EFD451N.ADA	EFD4510.ADA	EFD451P.ADA	EFD451Q.ADA
EFD451R.ADA	EFD451S.ADA	EFD4523.ADA	EFD4524.ADA	EFD4525.ADA	EFD4526.ADA
EFD4528.ADA	EFD452A.ADA	EFD455D.ADA	EFD455E.ADA	EFD455F.ADA	EFD455G.ADA
EFD455I.ADA	EFD455J.ADA	EFD455K.ADA	EFD455L.ADA	EFD4566.ADA	EFD4567.ADA
EFD4568.ADA	EFD4569.ADA	EFD4603.ADA	EFD4604.ADA	EFD4605.ADA	EFD4606.ADA
EFD4607.ADA	EFD4608.ADA	EFD4609.ADA	EFD460A.ADA	EFD460B.ADA	EFD460K.ADA
EFD460L.ADA	EFD460N.ADA	EFD4600.ADA	EFD520C.ADA	EFD520D.ADA	EFD520E.ADA
EFD520F.ADA	EFD520G.ADA	EFD520H.ADA	EFD520I.ADA	EFD520J.ADA	EFD520N.ADA
EFD520P.ADA	EFD520Q.ADA	EFD5218.ADA	EFD5219.ADA	EFD521A.ADA	EFD521B.ADA
EFD521C.ADA	EFD521D.ADA	EFD521E.ADA	EFD521F.ADA	EFD521K.ADA	EFD521M.ADA
EFD5210.ADA	EFD521P.ADA	EFD6201.ADA	EFD6209.ADA	EFD6210.ADA	EFD6211.ADA
EFD6213.ADA	EFD6214.ADA	EFD6215.ADA	EFD6216.ADA	EFD6217.ADA	EFD6218.ADA
EFD6219.ADA	EFD6222.ADA	EFD6223.ADA	EFD6224.ADA	EFD6225.ADA	EFD6226.ADA
EFD6227.ADA	EFD6228.ADA	EFD6229.ADA	EFD6230.ADA	EFD6231.ADA	EFD6232.ADA
EFD6233.ADA	EFD6243.ADA	EFD6244.ADA	EFD6245.ADA	EFD6246.ADA	EFD6247.ADA
EFD6248.ADA	EFD6249.ADA	EFD6250.ADA	EFD6251.ADA	EFD6252.ADA	EFD6253.ADA
EFD6260.ADA	EFD6261.ADA	EFD6262.ADA	EFD6263.ADA	EFD6264.ADA	EFD6265.ADA
EFD6266.ADA	EFD6267.ADA	EFD6268.ADA	EFD6269.ADA	EFD6270.ADA	EFD6271.ADA
EFD6272.ADA					
EFUDZ/Z.AVA	EFD6273.ADA	EFD6274.ADA	EFD6275.ADA	EFD6276.ADA	EFD6277.ADA
EFD6278.ADA	EFD6279.ADA	EFD6300.ADA	EFD6301.ADA	EFD6308.ADA	EFD6309.ADA
					EFREZZE ARA
EFD6310.ADA	EFD6311.ADA	EFD6312.ADA	EFD6313.ADA	EFD6314.ADA	EFD6315.ADA
EFD6316.ADA	EFD6317.ADA	EFD6318.ADA	EFD6319.ADA	EFD6322.ADA	EFD6332.ADA
EFD6333.ADA	EFD6334.ADA	EFD6335.ADA	EFD6336.ADA	EFD6337.ADA	EFD6338.ADA
EFD6339.ADA	EFD6340.ADA	EFD6342.ADA	EFD6343.ADA	EFD6344.ADA	EFD6345.ADA
EFD6346.ADA	EFD6347.ADA	EFD6348.ADA	EFD6349.ADA	EFD6350.ADA	EFD6352.ADA
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EFD6359.ADA	EFD6360.ADA	EFD6362.ADA	EFD6363.ADA	EFD6364.ADA	EFD6365.ADA
EFD6366.ADA	EFD6367.ADA	EFD6368.ADA	EFD6369.ADA	EFD6370.ADA	EFD6372.ADA
EFD6373.ADA			EFD6376.ADA	EFD6377.ADA	EFD6378.ADA
EL NO 3/3. WAY	EFD6374.ADA	EFD6375.ADA			
EFD6379.ADA	EFD6380.ADA	EFD6382.ADA	EFD6383.ADA	EFD6384.ADA	EFD6385.ADA
EFD6386.ADA	EFD6387.ADA			EFD6390.ADA	
		EFD6388.ADA	EFD6389.ADA		EFD680G.ADA
EFD680H.ADA	EFD680I.ADA	EFD680J.ADA	EFD9000.ADA	EFD9200.ADA	EFD9C00.ADA
	EFD9C02.ADA	EFDC104.ADA			
EFD9C01.ADA			EFDC105.ADA	EFDC106.ADA	EFDC107.ADA
EFDC310.ADA	EFDC311.ADA	EFDC313.ADA	EFDC314.ADA	EFDD600.ADA	EFDD601.ADA
EFDD602.ADA	EFDD603.ADA	EFDD604.ADA	EFDD605.ADA	EFDD606.ADA	EFDD607.ADA
EFDD609.ADA	EFDD610.ADA	EFDD611.ADA	EFDDA01.ADA	EFDDA02.ADA	EFDE000.ADA
		EFDE203.ADA			
EFDE201.ADA	EFDE202.ADA		EFDE204.ADA	EFDE205.ADA	EFDE206.ADA
EFDE207.ADA	EFDEZO8.ADA	EFDE209.ADA	EFDEZOA.ADA	EFDE211.ADA	EFDE212.ADA
	EFDE214.ADA	EFDE215.ADA			
EFDE213.ADA			EFDE216.ADA	EFDE220.ADA	EFDE231.ADA
EFDE232.ADA	EFDE233.ADA	EFDE234.ADA	EFDE235.ADA	EFDE236.ADA	EFDE237.ADA
EFDE238.ADA	EFDE239.ADA	EFDE23A.ADA	EFDE241.ADA	EFDE242, ADA	EFDE243.ADA
EFDE244.ADA	EFDE245.ADA	EFDE246.ADA	EFDE250.ADA	EFDE401.ADA	EFDE402.ADA
	EFDE404.ADA	EFDE405.ADA	EFDE406.ADA		
EFDE403.ADA	FL DELAMA 'YAN	してリレマリン・ベルベ	LIDLADD.ADA	EFDE407.ADA	EFDE408.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

EFDE409.ADA	EFDE40A.ADA	EFDE411.ADA	EFDE412.ADA	EFDE413.ADA	EFDE414.ADA
					EFDE433.ADA
EFDE415.ADA	EFDE416.ADA	EFDE420.ADA	EFDE431.ADA	EFDE432.ADA	
EFDE434.ADA	EFDE435.ADA	EFDE436.ADA	EFDE437.ADA	EFDE438.ADA	EFDE439.ADA
					EFDE445.ADA
EFDE43A.ADA	EFDE441.ADA	EFDE442.ADA	EFDE443.ADA	EFDE444.ADA	
EFDE446.ADA	EFDE450.ADA	EFDF000.ADA	EFDF001.ADA	EFDF002.ADA	EFDF003.ADA
			EFM9A01.ADA	EFM9A02.ADA	EFM9A03.ADA
EFDF004.ADA	EFDF005.ADA	EFM9A00.ADA			
EFN9300.ADA	EFN9301.ADA	EFN9302.ADA	EFN9303.ADA	EFN9510.ADA	EFN9511.ADA
EFN9610.ADA			EFN9613.ADA	EGODOOC.ADA	EGOPOOO.ADA
=	EFN9611.ADA	EFN9612.ADA			
EGD0000.ADA	EGD0001.ADA	EGD0002.ADA	EGD0003.ADA	EGD0004.ADA	EGD0005.ADA
EGD0006.ADA	EGD0007.ADA	EGD0008.ADA	EGD0009.ADA	EGDOOOD.ADA	EGDOOGE.ADA
EGD0019.ADA	EGD0029.ADA	EGD0039.ADA	EGD0049.ADA	EGN000F.ADA	EGNDDDG.ADA
EGNOODH.ADA	EGN000I.ADA	EGNODOJ.ADA	EGNOOOK.ADA	EL09000.ADA	EL09100.ADA
EL09101.ADA	EL09111.ADA	EL09121.ADA	EL09131.ADA	ELOPOOO.ADA	ELD9200.ADA
ELD9202.ADA	ELD9203.ADA	ELD9212.ADA	ELD9213.ADA	ELD9222.ADA	ELD9223.ADA
ELD9232.ADA	ELD9233.ADA	ELDEOOG.ADA	ELDE2B1.ADA	ELDE2B2.ADA	ELDE2C1.ADA
ELDE2C2.ADA	ELDE2C5.ADA	ELDE2C6.ADA	ELDE4B1.ADA	ELDE4B2.ADA	ELDE4C1.ADA
ELDE4C2.ADA	ELDE4C5.ADA	ELDE4C6.ADA	E000001.ADA	E000002.ADA	E000102.ADA
E000103.ADA	E000104.ADA	E000107.ADA	E000108.ADA	E000109.ADA	E000112.ADA
E000113.ADA	E000114.ADA	E000202.ADA	E000203.ADA	E000204.ADA	E000207.ADA
E000208.ADA	E000209.ADA	E000300.ADA	E000305.ADA	E000310.ADA	E000311.ADA
E000312.ADA	E000313.ADA	E000314.ADA	E000315.ADA	E000316.ADA	E000317.ADA
E000318.ADA	E000319.ADA	E000320.ADA	E000321.ADA	E000322.ADA	E000323.ADA
E000324.ADA	E000325.ADA	ED00326.ADA	E000327.ADA	E000328.ADA	E000329.ADA
E000330.ADA	E000331.ADA	E000332.ADA	E000333.ADA	E000334.ADA	E000335.ADA
E000336.ADA	E000337.ADA	E000338.ADA	E000339.ADA	E000340.ADA	E000341.ADA
E000342.ADA	E000343.ADA	E000347.ADA	E000348.ADA	E000349.ADA	E000350.ADA
E000351.ADA	E000352.ADA	E000353.ADA	E000354.ADA	E000355.ADA	E000356.ADA
E000357.ADA	E000358.ADA	E000359.ADA	E000360.ADA	E000361.ADA	E000362.ADA
E000363.ADA	E000364.ADA	E000365.ADA	E000366.ADA	E000367.ADA	E000368.ADA
EDD0369.ADA	ED0036A.ADA	EDD036B.ADA	E00036F.ADA	E00036G.ADA	EDD036H.ADA
E00036I.ADA	EO0036J.ADA	E00036K.ADA	E00036L.ADA	E00036M.ADA	E00036N.ADA
E00036U.ADA	EO0036V.ADA	E00036W.ADA	E000374.ADA	E000375.ADA	E000376.ADA
E000377.ADA	E000378.ADA	E000390.ADA	E000391.ADA	E000402.ADA	E000403.ADA
E000404.ADA	E000500.ADA	E000502.ADA	E000503.ADA	E000504.ADA	E000507.ADA
E000508.ADA	E000509.ADA	E000512.ADA	E000513.ADA	E000514.ADA	E000517.ADA
E000518.ADA	E000519.ADA	E000602.ADA	E000603.ADA	E000604.ADA	E000605.ADA
E000606.ADA	E000607.ADA	E000702.ADA	E000703.ADA	E000704.ADA	E000705.ADA
E000706.ADA	E000707.ADA	E000708.ADA	E000709.ADA	E000710.ADA	E000711.ADA
E000713.ADA	E000714.ADA	E000715.ADA	E000716.ADA	E000717.ADA	E000718.ADA
E000719.ADA	E000720.ADA	E000721.ADA	EOOPOOO.ADA	EDD0344.ADA	EOD0345.ADA
EDD0346.ADA	EOD036C.ADA	EOD036D.ADA	EODO36E.ADA	EOD0360.ADA	EODO36P.ADA
EDD036Q.ADA	EODO36R.ADA	EODO36S.ADA	EODO36T.ADA	EDD036X.ADA	EDD036Y.ADA
E000304.RDA					
EODO36Z.ADA	EODO370.ADA	EOD0371.ADA	EDD0372.ADA	EDD0373.ADA	EDD0380.ADA
EODO381.ADA	EODO382.ADA	EODO383.ADA	EODO523.ADA	EOD0524.ADA	EODO525.ADA
			EOD0529.ADA	OURDMP.ADA	OURSYS.ADA
EDD0526.ADA	EDD0527.ADA	EODO528.ADA			
OURSYSR.ADA	SACODOO.ADA	SADPODO.ADA	SF03500.ADA	SF03501.ADA	SF03502.ADA
SF03503.ADA	SF03504.ADA	SF03509.ADA	SF03510.ADA	SF03511.ADA	SF03512.ADA
SF03513.ADA	SF03514.ADA	SF03517.ADA	SF03518.ADA	SF03519.ADA	SF03550.ADA
SF03600.ADA	SF03601.ADA	SF03602.ADA	SF03603.ADA	SF03604.ADA	SF03605.ADA
			SF03609.ADA	SF03610.ADA	SF03611.ADA
SF03606.ADA	SF03607.ADA	SF03608.ADA			
SF03612.ADA	SF03613.ADA	SF03614.ADA	SF03615.ADA	SF03616.ADA	SF03617.ADA
SF03618.ADA	SF03619.ADA	SF03620.ADA	SF03630.ADA	SF03631.ADA	SF03632.ADA
3,03010.858	3703017.858				
SF03633.ADA	SF03634.ADA	SF03635.ADA	SF03636.ADA	SF03637.ADA	SF03638.ADA
SF03639.ADA	SF03641.ADA	SF03642.ADA	SF03643.ADA	SF03644.ADA	SF03645.ADA
SF03646.ADA	SF03647.ADA	SF03648.ADA	SF03649.ADA	SF03650.ADA	SF03700.ADA
SF03701.ADA	SF03702.ADA	SF03703.ADA	SF03704.ADA	SF03800.ADA	SF03801.ADA
SF03802.ADA	SF03803.ADA	SF03804.ADA	SF03805.ADA	SF04120.ADA	SF04121.ADA
SF04122.ADA	SF04123.ADA	SF04124.ADA	SF04125.ADA	SF04126.ADA	SF04127.ADA
SF04129.ADA	SF0412B.ADA	SF04130.ADA	SF04131.ADA	SF04132.ADA	SF04133.ADA
SF0413D.ADA	SF0413H.ADA	SF04131.ADA	SF0413J.ADA	SF0413K.ADA	SF04310.ADA
SF04311.ADA	SF04312.ADA	SF04510.ADA	SF04511.ADA	SF04512.ADA	SF04513.ADA
SF04514.ADA	SF04515.ADA	SF04516.ADA	SF04517.ADA	SF04518.ADA	SF04519.ADA
SF0451A.ADA	SF0451B.ADA	SF0451C.ADA	SF0451D.ADA	SF0451E.ADA	SF0451F.ADA
SF0451G.ADA	SF0451H.ADA	SF04511.ADA	SF0451J.ADA	SF0451V.ADA	SF0451H.ADA
SF0451X.ADA	SF0451Y.ADA	SF0451Z.ADA	SF04520.ADA	SF04521.ADA	SF04522.ADA
SF04527.ADA	SF04529.ADA	SF04530.ADA	SF04531.ADA	SF04532.ADA	SF04533.ADA
SF04534.ADA	SF04535.ADA	SF04536.ADA	SF04537.ADA	SF04538.ADA	SF04539.ADA
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Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

SF0453C.ADA SF04553.ADA SF0453A.ADA SF0453B.ADA SF04541.ADA SF04550.ADA SF04540.ADA SF04551.ADA SF04557.ADA SF04554.ADA SF04556.ADA SF04552.ADA SF04555.ADA SF04559.ADA SF04560.ADA SFD455D.ADA SF04558.ADA SF0455N.ADA SF04562.ADA SF0460F.ADA SF05200.ADA SF04563.ADA SF04600.ADA SF04601.ADA SF04602.ADA SF0460E.ADA SF0460H.ADA SF0460I.ADA SF0460M.ADA SF0460G.ADA SF0460J.ADA SF05202.ADA SF05208.ADA SF05204.ADA SF0520A.ADA SF05201.ADA SF05203.ADA SF05205.ADA SF05207.ADA SF05206.ADA SF05209.ADA SF0520B.ADA SF05200.ADA SF05213.ADA SF0521K.ADA SF05211.ADA SF05211.ADA SF0520R.ADA SF0520S.ADA SF0520M.ADA SF05210.ADA SF05212.ADA SF05214.ADA SF05215.ADA SF0521H.ADA SF0521L.ADA SF0521N.ADA SF0521J.ADA SF05300.ADA SF05301.ADA SF05303.ADA SF05304.ADA SF05302.ADA SF05305.ADA SF05306.ADA SF05307.ADA SF05400.ADA SF05308.ADA SF05402.ADA SF05404.ADA SF05401.ADA SF05403.ADA SF05502.ADA SF05405.ADA SF05406.ADA SF05407.ADA SF05408.ADA SF05501.ADA SF05504.ADA SF0550A.ADA SF05503.ADA SF05508.ADA SF0550E.ADA SF05506.ADA SF05507.ADA SF05505.ADA SF05509.ADA SF0550B.ADA SF0550C.ADA SF0550D.ADA SF06011.ADA SF06018.ADA SF0550F.ADA SF06001.ADA SF06009.ADA SF06010.ADA SF06013.ADA SF06019.ADA SF06027.ADA SF06017.ADA SF06025.ADA SF06014.ADA SF06015.ADA SF06016.ADA SF06022.ADA SF06023.ADA SF06029.ADA SF06024.ADA SF06026.ADA SF06030.ADA SF06031.ADA SF06028.ADA SF06032.ADA SF06033.ADA SF06047.ADA SF06053.ADA SF06046.ADA SF06043.ADA SF06044.ADA SF06045.ADA SF06048.ADA SF06050.ADA SF06051.ADA SF06049.ADA SF06052.ADA SF06060.ADA SF06061.ADA SF06062.ADA SF06066.ADA SF06063.ADA SF06065.ADA SF06064.ADA SF06069.ADA SF06067.ADA SF06068.ADA SF06070.ADA SF06071.ADA SF06072.ADA SF06074.ADA SF06076.ADA SF06078.ADA SF06073.ADA SF06075.ADA SF06077.ADA SF06079.ADA SF06100.ADA SF06101.ADA SF06108.ADA SF06109.ADA SF06110.ADA SF06111.ADA SF06113.ADA SF06112.ADA SF06114.ADA SF06115.ADA SF06116.ADA SF06117.ADA SF06134.ADA SF06132.ADA SF06118.ADA SF06119.ADA SF06122.ADA SF06133.ADA SF06135.ADA SF06142.ADA SF06136.ADA SF06137.ADA SF06138.ADA SF06139.ADA SF06140.ADA SF06143.ADA SF06144.ADA SF06145.ADA SF06146.ADA SF06149.ADA SF06147.ADA SF06148.ADA SF06150.ADA SF06152.ADA SF06153.ADA SF06156.ADA SF06163.ADA SF06169.ADA SF06155.ADA SF06162.ADA SF06157.ADA SF06154.ADA SF06158.ADA SF06159.ADA SF06160.ADA SF06164.ADA SF06165.ADA SF06166.ADA SF06168.ADA SF06175.ADA SF06172.ADA SF06167.ADA SF06170.ADA SF06173.ADA SF06176.ADA SF06183.ADA SF06178.ADA SF06185.ADA SF06174.ADA SF06177.ADA SF06179.ADA SF06180.ADA SF06182.ADA SF06184.ADA SF06186.ADA SF06190.ADA SFD6187.ADA SF06188.ADA SF06189.ADA SF06191.ADA SF06192.ADA SF06196.ADA SF0619C.ADA SF06193.ADA SF06194.ADA SF06195.ADA SF06197.ADA SF06198.ADA SF0619D.ADA SF06199.ADA SF0619A.ADA SF0619G.ADA SF0619B.ADA SF0619E.ADA SF0619H.ADA SF0619K.ADA SF0619F.ADA SF0619J.ADA SF06191.ADA SF0619P.ADA SF0619L.ADA SF0619M.ADA SF0619N.ADA SF06190.ADA SF0619Q.ADA SF06425.ADA SF06422.ADA SF0619R.ADA SF06423.ADA SF06424.ADA SF06426.ADA SF06427.ADA SF06803.ADA SF06428.ADA SF06429.ADA SF06807.ADA SF0642A.ADA SF0642B.ADA SF06802.ADA SF06806.ADA SF06808.ADA SF06809.ADA SF0680A.ADA SF0680B.ADA SF0680C.ADA SF0680D.ADA SF0680E.ADA SF0680F.ADA SF06810.ADA SF06811.ADA SF06819.ADA SF06815.ADA SF06821.ADA SF06817.ADA SF06823.ADA SF06814.ADA SF06820.ADA SF06818.ADA SF06816.ADA SF06824.ADA SF06822.ADA SF09500.ADA SF09501.ADA SF09502.ADA SF09503.ADA SF09504.ADA SF06825.ADA SF09509.ADA SF09605.ADA SF09506.ADA SF09508.ADA SF09505.ADA SF09507.ADA SF09600.ADA SF09603.ADA SF09604.ADA SF09606.ADA SF09601.ADA SF09602.ADA SF09713.ADA SF09607.ADA SF09710.ADA SF09711.ADA SF09712.ADA SF09720.ADA SF09731.ADA SF09900.ADA SF09721.ADA SF09901.ADA SF09902.ADA SF09903.ADA SFOCIOO.ADA SF09B01.ADA SFOC103.ADA SFOC102.ADA SFOC101.ADA SF0C300.ADA SF0C301.ADA SFOC303.ADA SFOC305.ADA SFOC306.ADA SF0C302.ADA SFOC304.ADA SF0C307.ADA SFOD720.ADA SFOD721.ADA SFOD727.ADA SFOD728.ADA SFOD729.ADA SFOD72D.ADA SFD3551.ADA SFD4137.ADA SFD413E.ADA SFOPOOD.ADA SFD412D.ADA SFD412A.ADA SFD412C.ADA SFD4136.ADA-SFD4138.ADA SFD4139.ADA SFD413A.ADA SFD4135.ADA SFD451K.ADA SFD413B.ADA SFD413C.ADA SFD413G.ADA SFD451L.ADA SFD451N.ADA SFD451Q.ADA SFD451P.ADA SFD451M.ADA SFD4510.ADA SFD451R.ADA SFD4523.ADA SFD4524.ADA SFD455E.ADA SFD4525.ADA SFD455F.ADA SFD4526.ADA SFD451S.ADA SFD4528.ADA SFD452A.ADA SFD455D.ADA SFD455G.ADA SFD455I.ADA SFD455K.ADA SFD455J.ADA SFD455L.ADA SFD4566.ADA SFD4567.ADA SFD4568.ADA SFD4603.ADA SFD4605.ADA SFD4604.ADA SFD4606.ADA SFD4607.ADA SFD4569.ADA SFD460A.ADA SFD4608.ADA SFD4609.ADA SFD460B.ADA SFD460K.ADA SFD460L.ADA SFD4802.ADA SFD460N.ADA SFD4600.ADA SFD4800.ADA SFD4801.ADA SFD4803.ADA SFD520F.ADA SFD520P.ADA SFD521C.ADA SFD520E.ADA SFD4804.ADA SFD520D.ADA SFD520G.ADA SFD520C.ADA SFD520N.ADA SFD520Q.ADA SFD520H.ADA SFD520I.ADA SFD520J.ADA SFD5218.ADA SFD5219.ADA SFD521A.ADA SFD521B.ADA SFD521D.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

SFD521E.ADA	SFD521F.ADA	SFD521K.ADA	SFD521M.ADA	SFD5210.ADA	SFD521P.ADA
SFD6201.ADA	SFD6209.ADA	SFD6210.ADA	SFD6211.ADA	SFD6213.ADA	SFD6214.ADA
SFD6215.ADA	SFD6216.ADA	SFD6217.ADA	SFD6218.ADA	SFD6219.ADA	SFD6222.ADA
SFD6223.ADA	SFD6224.ADA	SFD6225.ADA	SFD6226.ADA	SFD6227.ADA	SFD6228.ADA
SFD6229.ADA	SFD6230.ADA	SFD6231.ADA	SFD6232.ADA	SFD6233.ADA	SFD6243.ADA
SFD6244.ADA	SFD6245.ADA	SFD6246.ADA	SFD6247.ADA	SFD6248.ADA	SFD6249.ADA
SFD6250.ADA	SFD6251.ADA	SFD6252.ADA	SFD6253.ADA	SFD6260.ADA	SFD6261.ADA
SFD6262.ADA	SFD6263.ADA	SFD6264.ADA	SFD6265.ADA	SFD6266.ADA	SFD6267.ADA
SFD6268.ADA	SFD6269.ADA	SFD6270.ADA	SFD6271.ADA	SFD6272.ADA	SFD6273.ADA
SFD6274.ADA	SFD6275.ADA	SFD6276.ADA	SFD6277.ADA	SFD6278.ADA	SFD6279.ADA
SFD6300.ADA	SFD6301.ADA	SFD6308.ADA	SFD6309.ADA	SFD6310.ADA	SFD6311.ADA
SFD6312.ADA	SFD6313.ADA	SFD6314.ADA	SFD6315.ADA	SFD6316.ADA	SFD6317.ADA
SFD6318.ADA	SFD6319.ADA	SFD6322.ADA	SFD6332.ADA	SFD6333.ADA	SFD6334.ADA
SFD6335.ADA	SFD6336.ADA	SFD6337.ADA	SFD6338.ADA	SFD6339.ADA	SFD6340.ADA
				T 1 T T T T T T T T T T T T T T T T T T	
SFD6342.ADA	SFD6343.ADA	SFD6344.ADA	SFD6345.ADA	SFD6346.ADA	SFD6347.ADA
SFD6348.ADA	SFD6349.ADA	SFD6350.ADA	SFD6352.ADA	SFD6353.ADA	SFD6354.ADA
SFD6355.ADA	SFD6356.ADA	SFD6357.ADA	SFD6358.ADA	SFD6359.ADA	SFD6360.ADA
SFD6362.ADA	SFD6363.ADA	SFD6364.ADA			
			SFD6365.ADA	SFD6366.ADA	SFD6367.ADA
SFD6368.ADA	SFD6369.ADA	SFD6370.ADA	SFD6372.ADA	SFD6373.ADA	SFD6374.ADA
SFD6375.ADA	SFD6376.ADA	SFD6377.ADA	SFD6378.ADA	SFD6379.ADA	SFD6380.ADA
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SFD680J.ADA	SFD9000.ADA	SFD9200.ADA	SFD9C00.ADA	SFD9C01.ADA	SFD9C02.ADA
SFDC104.ADA	SFDC105.ADA	SFDC106.ADA	SFDC107.ADA	SFDC310.ADA	SFDC311.ADA
SFDC313.ADA	SFDC314.ADA	SFDD600.ADA	SFDD601.ADA	SFDD602.ADA	SFDD603.ADA
SFDD604.ADA	SFDD605.ADA	SFDD606.ADA	SFDD607.ADA	SFDD609.ADA	SFDD610.ADA
SFDD611.ADA	SFDD722.ADA	SFDD723.ADA	SFDD724.ADA	SFDD725.ADA	SFDD72A.ADA
SFDD72B.ADA	SFDD72C.ADA				
		SFDD72E.ADA	SFDD72F.ADA	SFDD72G.ADA	SFDD72H.ADA
SFDD721.ADA	SFDDA01.ADA	SFDDA02.ADA	SFDE000.ADA	SFDE201.ADA	SFDE202.ADA
SFDE203.ADA	SFDE204.ADA	SFDE205.ADA	SFDE206.ADA	SFDE207.ADA	SFDE208.ADA
SFDE209.ADA	SFDE20A.ADA	SFDE211.ADA	SFDE212.ADA	SFDE213.ADA	SFDE214.ADA
SFDE215.ADA	SFDE216.ADA	SFDE220.ADA	SFDE231.ADA	SFDE232.ADA	SFDE233.ADA
SFDE234.ADA	SFDE235.ADA	SFDE236.ADA	SFDE237.ADA	SFDE238.ADA	SFDE239.ADA
SFDE23A.ADA	SFDE241.ADA	SFDE242.ADA	SFDE243.ADA	SFDE244.ADA	SFDE245.ADA
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SFDE246.ADA	SFDE250.ADA	SFDE401.ADA	SFDE402.ADA	SFDE403.ADA	SFDE404.ADA
SFDE405.ADA	SFDE406.ADA	SFDE407.ADA	SFDE408.ADA	SFDE409.ADA	SFDE40A.ADA
SFDE411.ADA	SFDE412.ADA	SFDE413.ADA	SFDE414.ADA	SFDE415.ADA	SFDE416.ADA
SFDE420.ADA	SFDE431.ADA	SFDE432.ADA	SFDE433.ADA	SFDE434.ADA	SFDE435.ADA
SFDE436.ADA	SFDE437.ADA	SFDE438.ADA	SFDE439.ADA	SFDE43A.ADA	SFDE441.ADA
SFDE442.ADA	SFDE443.ADA	SFDE444.ADA	SFDE445.ADA	SFDE446.ADA	SFDE450.ADA
SFDF000.ADA	SFDF001.ADA	SFDF002.ADA	SFDF003.ADA	SFDF004.ADA	SFDF005.ADA
SFM9A00.ADA	SFM9A01.ADA	SFM9A02.ADA	SFM9A03.ADA	SFMB000.ADA	SFMB001.ADA
SFMB002.ADA	SFMB003.ADA	SFMB004.ADA	SFMB005.ADA	SFMBDO6.ADA	SFMB007.ADA
SFMB008.ADA	SFMB009.ADA	SFMB010.ADA	SFMB011.ADA	SFMB012.ADA	SFMB013.ADA
SFMB014.ADA	SFMB015.ADA	SFMB016.ADA	SFMB017.ADA	SFMB018.ADA	SFMB019.ADA
SFMB020.ADA	SFMB021.ADA	SFMB022.ADA	SFMB023.ADA	SFMB024.ADA	SFMB025.ADA
SFMB026.ADA	SFMB027.ADA	SFMB028.ADA	SFMB029.ADA	SFMB030.ADA	SFMB031.ADA
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SFMB044.ADA	SFN9300.ADA	SFN9301.ADA	SFN9302.ADA	SFN9303.ADA	SFN9510.ADA
SFN9511.ADA	SFN9610.ADA	SFN9611.ADA	SFN9612.ADA	SFN9613.ADA	SG0000C.ADA
SGOPOOO.ADA	SGD0000.ADA	SGD0001.ADA	SGD0002.ADA	SGD0003.ADA	SGD0004.ADA
		JUDUUL AVA			
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SGD000E.ADA	SGD0019.ADA	SGD0029.ADA	SGD0039.ADA	SGD0049.ADA	SGN000F.ADA
SGN000G.ADA	SGN000H.ADA	SGN000I.ADA	SGN000J.ADA	SGNODOK.ADA	SL09000.ADA
SL09100.ADA	SL09101.ADA	SL09111.ADA	SL09121.ADA	SL09131.ADA	SLOPOOO.ADA
SLD9200.ADA	SLD9202.ADA	SLD9203.ADA	SLD9212.ADA	SLD9213.ADA	SLD9222.ADA
SLD9223.ADA	SLD9232.ADA	SLD9233.ADA	SLDEDOD.ADA	SLDE2B1.ADA	SLDE2B2.ADA
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S000329.ADA	5000330.ADA	S000331.ADA	S000332.ADA	SD00333.ADA	SD00334.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

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S000356.ADA	S000357.ADA	S000358.ADA	S000359.ADA	S000360.ADA	5000361.ADA
S000362.ADA	S000363.ADA	S000364.ADA	S000365.ADA	S000366.ADA	S000367.ADA
S000368.ADA	S000369.ADA	S00036A.ADA	S00036B.ADA	S00036F.ADA	S00036G.ADA
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S000403.ADA	S000404.ADA	S000500.ADA	S000502.ADA	S000503.ADA	S000504.ADA
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SOD036Y.ADA	SODO36Z.ADA	SOD0370.ADA	SOD0371.ADA	SOD0372.ADA	SOD0373.ADA
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TF0460H.ADA	TF04601.ADA	TF046DJ.ADA	TF0460M.ADA	TF05200.ADA	TF05201.ADA
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TF06075.ADA	TF06076.ADA	TF06077.ADA	TF06078.ADA	TF06079.ADA	TFD6100.ADA

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

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TF06163.ADA	TF06164.ADA	TF06165.ADA	TF06166.ADA	TF06167.ADA	TF06168.ADA
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TFD4137.ADA	TFD4138.ADA	TFD4139.ADA	TFD413A.ADA	TFD413B.ADA	TFD413C.ADA
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TFD9200.ADA	TFD9C00.ADA	TFD9C01.ADA	TFD9C02.ADA	TFDC104.ADA	TFDC105.ADA
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Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

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T000319.ADA	T000320.ADA	T000321.ADA	T000322.ADA	T000323.ADA	T000324.ADA
T000325.ADA	T000326.ADA	T000327.ADA	T000328.ADA	T000329.ADA	T000330.ADA
T000331.ADA	T000332.ADA	T000333.ADA	T000334.ADA	T000335.ADA	T000336.ADA
T000337.ADA	T000338.ADA	T000339.ADA	T000340.ADA	T000341.ADA	T000342.ADA
T000343.ADA	T000347.ADA	T000348.ADA	T000349.ADA	T000350.ADA	T000351.ADA
TG30352.ADA	T000353.ADA	T000354.ADA	TODO355.ADA	T000356.ADA	T000357.ADA
T000358.ADA	T000359.ADA	T000360.ADA	T000361.ADA	T000362.ADA	T000363.ADA
T000364.ADA	T000365.ADA	T000366.ADA	T000367.ADA	T000368.ADA	T000369.ADA
T00036A.ADA	T00036B.ADA	T00036F.AD'	TOOO36G.ADA	TOOO36H.ADA	T00036I.ADA
T00036J.ADA	T00036K.ADA	T00036L.ALA	T00036M.ADA	T00036N.ADA	T00036U.ADA
T00036V.ADA	TOOO36W.ADA	T000374.ADA	T000375.ADA	T000376.ADA	T000377.ADA
T000378.ADA	TODO390.ADA	T000391.ADA	T000402.ADA	T000403.ADA	T000404.ADA
		T000503.ADA	T000504.ADA		
T000500.ADA	T000502.ADA			T000507.ADA	T000508.ADA
T000509.ADA	T000512.ADA	T000513.ADA	T000514.ADA	T000517.ADA	T000518.ADA
T000519.ADA	T000602.ADA	T000603.ADA	T000604.ADA	T000605.ADA	T000606.ADA
T000607.ADA	T000702.ADA	T000703.ADA	T000704.ADA	T000705.ADA	T000706.ADA
T000707.ADA	T000708.ADA	T000709.ADA	T000710.ADA	T000711.ADA	T000713.ADA
T000714.ADA	T000715.ADA	T000716.ADA	T000717.ADA	T000718.ADA	T000719.ADA
T000720.ADA	T000721.ADA	TOOPOOO.ADA	TODO344.ADA	TOD0345.ADA	TOD0346.ADA
TODO36C.ADA	TODO36D.ADA	TODO36E.ADA	TODO360.ADA	TODO36P.ADA	TDD036Q.ADA
			TODO36X.ADA		TODO36Z.ADA
TODO36R.ADA	TODO365.ADA	TODO36T.ADA		TODO36Y.ADA	
TODO370.ADA	TOD0371.ADA	TOD0372.ADA	TODO373.ADA	TODO380.ADA	TODO381.ADA
TODO382.ADA	TODO383.ADA	TODO523.ADA	TODO524.ADA	TODO525.ADA	TODO526.ADA
TODO527.ADA	TODO528.ADA	TODO529.ADA	MATHFUN. DEC	ALD9204.DEC	ALD9214.DEC
ALD9224.DEC	ALD9234.DEC	ALDEZC3.DEC	ALDE2C4.DEC	ALDE2C7.DEC	ALDE2C8.DEC
ALDE4C3.DEC	ALDE4C4.DEC	ALDE4C7.DEC	ALDE4C8.DEC	CLD9204.DEC	CL D9214. DEC
CL D9224 . DEC	CLD9234.DEC	CLDE2C3.DEC	CLDE2C4.DEC	CLDE2C7.DEC	CL DE2C8. DEC

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

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ELD9214.DEC
                                                             ELD9204.DEC
CLDE4C3.DEC
               CLDE4C4.DEC
                              CLDE4C7.DEC
                                              CLDE4C8.DEC
                                                                             EL DE2C8. DEC
EL D9224. DEC
               EL D9234. DEC
                               EL DE2C3. DEC
                                              ELDE2C4.DEC
                                                             ELDE2C7.DEC
                              EL DE4C7 . DEC
                                              EL DE4C8 . DEC
                                                             SLD9204.DEC
EL DE4C3. DEC
               ELDE4C4.DEC
                                                                             SL D9214. DEC
                               SLDE2C3.DEC
                                                             SLDE2C7.DEC
                                                                             SLDE2C8.DEC
               SLD9234.DEC
                                              SLDE2C4.DEC
SLD9224.DEC
                                                             TLD9204.DEC
TLDE2C7.DEC
SLDE4C3.DEC
               SLDE4C4.DEC
                               SLDE4C7.DEC
                                              SLDE4C8.DEC
                                                                             TLD9214.DEC
               TLD9234.DEC
                               TLDE2C3.DEC
                                              TLDE2C4.DEC
TL D9224. DEC
                                                                             TLDE2C8.DEC
                                              TLDE4C8.DEC
AFD9C03.DEC
                                                                            CGDOO59. DEC
TLDE4C3.DEC
               TLDE4C4. DEC
                                                             AGD0059 . DEC
                              TLDE4C7.DEC
EGD0059.DEC
               SGD0059.DEC
                              TGD0059.DEC
                                                             AFD9C04.DEC
                                                                             CFD9C03.DEC
CFD9C04.DEC
               EFD9C03.DEC
                                                                             TFD9C03.DEC
                              EFD9C04.DEC
                                              SFD9C03.DEC
                                                             SFD9C04.DEC
                                              OURSYSR.SPA
OURTYP.TIM
AFD4803.USE
                                                             OURTYP . SPA
TFD9C04.DEC
               OURSPC.SPA
OURSYS.TIM
                              OURSYS.SPA
OURSYSR.TIM
                                                                             OURTYPR.SPA
                                                             OURTYPR.TIM
DURSPC.TIM
                                                                             ADASYS.USE
               AFD4128.USE
                              AFD451U.USE
                                                             AFDC107.USE
ADATYP.USE
                                                                             AFDD608.USE
               CFD451U.USE
                                              CFDC107.USE
OURSPC.USE
CFD4128.USE
                              CFD4803.USE
                                                                            EFD4128.USE
                                                             CFDD608.USE
               EFDC107.USE
                               EFDD608.USE
                                                                             OURTYPR.USE
EFD451U.USE
                                                             DURTYP.USE
SFD4128.USE
               SFD451U.USE
                              SFD4803.USE
                                              SFDC107.USE
                                                             SFDD608.USE
                                                                             TFD4128.USE
                                              TFDD608.USE
                              TFDC107.USE
FFDE000.CMN
TFD451U.USE
               TFD4803.USE
                                              FGOPOOD.CMN
FAOPOOD.CMN
               FF0P000.CMN
                                                             FGD0000.CMN
                                                                             F000002.CMN
FOOPOOO.CMN
               DURFOR.CMN
                               SYSFOR.CMN
                                              FA00000.FOR
                                                             FF03500.FOR
                                                                            FF03502.FOR
FF03503.FOR FF03603.FOR
                              FF03514.FOR FF03606.FOR
               FF03504.FOR
                                              FF03519.FOR
                                                             FF03600.FOR
                                                                             FF03602.FOR
                                              FF03608.FOR
               FF03605.FOR
                                                             FF03609.FDR
                                                                             FF03620.FOR
FF04120.FOR
               FF04121.FOR
                                              FF04123.FOR
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                                                             FF04124.FOR
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FF04126.FOR
               FF04127.FOR
                              FF04129.FOR FF04515.FOR
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               FF04514.FOR
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FF04513.FOR
FF04519.FOR
FF0451F.FOR
                                              FF0451C.FOR
FF04511.FOR
                              FF0451B.FOR
                                                                             FF0451E.FOR
               FF0451A.FOR
                                                             FF0451D.FOR
                              FF0451H.FOR
                                                                             FF0451V.FOR
               FF0451G.FOR
                                                             FF0451J.FOR
FF0451W.FOR
               FF0451X.FOR
                              FF0451Y.FOR
                                              FF0451Z.FOR
                                                             FF04520.FOR
                                                                             FF04521.FOR
                                              FF04531.FOR
FF04537.FOR
                                                             FF04532.FOR
FF04522.FOR
                              FF04530.FOR
FF04536.FOR
               FF04529.FOR
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FF04534.FOR
               FF04535.FOR
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                              FF04541.FOR
FF04555.FOR
FF04562.FOR
FF0453A.FOR
               FF04540.FOR
                                              FF04550.FOR
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FF04553.FOR
FF04559.FOR
               FF04554.FOR
FF04560.FOR
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                                                             FF04600.FOR
                                                                             FF04601.FOR
                              FF05200.FOR
FF05206.FOR
                                              FF05201.FOR
FF05207.FOR
FF05212.FOR
               FF0460I.FOR
                                                                            FF05203.FOR FF05209.FOR
                                                             FF05202.FOR
FF04602.FOR
                                                             FF05208.FOR FF05213.FOR
FF05204.FOR
               FF05205.FOR
FF0520A.FOR
                              FF05211.FOR
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               FF05210.FOR
FF05215.FOR
                                                             FF0521K.FOR
                                              FF0521J.FOR
                                                                            FF05300.FOR
               FF0521H.FOR
                              FF05211.FOR
                                                                            FF05306.FOR
FF05301.FOR
               FF05302.FOR
                              FF05303.FOR
                                              FF05304.FOR
                                                             FF05305.FOR
FF05307.FOR
                                              FF05401.FOR
               FF05308.FOR
                              FF05400.FOR
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                                              FF05407 . FOR
FF05404.FOR
               FF05405.FOR
                              FF05406 . FOR
                                                             FF05408.FOR
                                                                            FF05501.FOR
FF05502.FOR
               FF05503.FOR
                              FF05504.FOR
                                              FF05505.FOR
                                                             FF05506.FOR
                                                                             FF05507.FDR
FF05508.FOR
               FF05509.FDR
                              FF0550A.FOR
                                              FF0550B.FOR
                                                             FF0550C.FOR
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               FF0550F.FOR
FF06014.FOR
                              FF06001.FOR FF06015.FOR
                                                                            FF06011.FOR FF06018.FOR
FF0550E.FOR
FF06013.FOR
                                              FF06009.FOR
                                                             FF06010.FOR FF06017.FOR
                                              FF06016.FOR
                              FF06023.FOR
                                              FF06024.FOR
                                                             FF06025.FOR
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FF06019.FOR
               FF06022.FOR
                              FF06029.FOR
FF06027.FOR
               FF06028.FOR
                                              FF06030.FOR
                                                             FF06031.FOR
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                              FF06044.FOR
FF06033.FOR
               FF06043.FOR
                                              FF06045.FDR
                                                             FF06046.FOR
                                                                             FF06047.FOR
                              FF06050.FOR
                                              FF06051.FDR
                                                                            FF06053.FOR
FF06048.FOR
               FF06049.FOR
                                                             FF06052.FOR
FF06060.FOR
               FF06061.FOR
                              FF06062.FOR
                                              FF06063.FOR
                                                             FF06064.FOR
                                                                             FF06065.FOR
FF06066.FDR
               FF06067.FDR
                              FF06068.FDR
                                              FF06069.FOR
                                                             FF06070.FOR
                                                                             FF06071.FOR
                              FF06074.FOR
               FF06073.FOR
                                              FF06075.FOR
                                                             FF06076.FOR
                                                                            FF06077.FOR
FF06072.FOR
                              FF06100.FOR
                                                                             FF06109.FOR
FF06078.FOR
               FF06079.FOR
                                              FF06101.FOR
                                                             FF06108.FOR
FF06110.FOR
               FF06111.FOR
                              FF06112.FOR
                                              FF06113.FOR
                                                             FF06114.FOR
                                                                             FF06115.FOR
               FF06117.FDR
FF06134.FDR
                                              FF06119.FOR
FF06136.FOR
                                                                            FF06132.FOR
FF06138.FOR
FF06116.FDR
                              FF06118.FOR FF06135.FOR
                                                             FF06122.FOR FF06137.FOR
FF06133.FOR
FF06139.FOR
               FF06140.FOR
                              FF06142.FOR
                                              FF06143.FOR
                                                             FF06144.FOR
                                                                             FF06145.FOR
FF06146.FOR FF06153.FOR
               FF06147.FOR FF06154.FOR
                              FF06148.FDR
FF06155.FOR
                                              FF06149.FOR
FF06156.FOR
                                                             FF06150.FOR
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FF06159.FOR
               FF06160.FOR
                              FF06162.FOR
                                              FF06163.FOR
                                                             FF06164.FOR
                                                                             FF06165.FOR
FF06166.FOR
FF06173.FOR
               FF06167.FOR
FF06174.FOR
                              FF06168.FOR
FF06175.FOR
                                              FF06169.FOR
                                                             FF06170.FOR
                                                                             FF06172.FDR
                                                             FF06177.FOR
                                                                             FF06178.FOR
                                              FF06176.FOR
FF06179.FOR
               FF06180.FDR
                              FF06182.FOR
                                              FF06183.FOR
                                                             FF06184.FOR
                                                                             FF06185.FOR
                              FF06188.FOR FF06807.FOR
FF06186.FOR
               FF06187.FOR
                                              FF06189.FOR
                                                             FF06190.FOR
                                                                             FF06802.FOR
                                              FF06816 . FOR
FF06803.FOR
               FF06806.FOR
                                                             FF06817.FOR
                                                                             FF06818.FOR
                              FF06821.FDR
               FF06820.FOR
                                              FF0D720.FOR
                                                             FF0D721.FOR
                                                                             FF0D727.FOR
FF06819.FOR
FF0D728.FOR
               FFD451K.FOR
                              FFD451L.FOR
                                              FFD451M.FOR
                                                             FFD451N.FOR
                                                                             FFD4510.FOR
FFD451P.FOR
                                              FFD451S.FOR
               FFD451Q.FOR
                              FFD451R.FOR
                                                             FFD4523.FOR
                                                                             FFD4524.FOR
FFD4525.FOR
                              FFD455D.FOR
                                                             FFD455F.FOR
               FFD4526.FOR
                                              FFD455E.FOR
                                                                             FFD455G.FOR
               FFD455J.FOR
                              FFD455K.FOR
                                              FFD455L.FOR
                                                             FFD4567.FOR
                                                                            FFD4568.FOR
FFD4551.FOR
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Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

FFD4569.FOR FFD4603.FOR FFD4604.FOR FFD4605.FOR FFD4606.FOR FFD4607.FOR FFD4608.FOR FFD4609.FOR FFD460A.FOR FFD460B.FOR FFD520C.FOR FFD520D.FOR FFD520G.FOR FFD520H.FOR FFD520J.FOR FFD520E.FOR FFD520F.FOR FFD520I.FOR FFD521A.FOR FFDD722.FOR FFD5219.FOR FFD521B.FOR FFD5218.FOR FFD521C.FOR FFD521D.FOR FFD521F.FOR FFDE202.FOR FFD521E.FOR FFDD723.FOR FFDD724.FOR FFDD725.FOR FFDE201.FOR FFDE207.FOR FFDE204.FOR FFDE206.FOR FFDE203.FOR FFDE205.FOR FFDE208.FOR FFDE209.FOR FFDE20A.FOR FFDE211.FOR FFDE212.FOR FFDE214.FOR FFDE233.FOR FFDE239.FOR FFDE216.FOR FFDE235.FOR FFDE220.FOR FFDE236.FOR FFDE231.FOR FFDE237.FOR FFDE213.FOR FFDE215.FOR FFDE232.FOR FFDE234.FOR FFDE23A.FOR FFDE246.FOR FFDE238.FOR FFDE241.FOR FFDE243.FOR FFDE242.FOR FFDE250.FOR FFDE406.FOR FFDE245.FOR FFDE244.FOR FFDE401.FOR FFDE402.FOR FFDE407.FOR FFDE403.FOR FFDE404.FOR FFDE405.FOR FFDE408.FOR FFDE409.FOR FFDE40A.FOR FFDE412.FOR FFDE414.FOR FFDE411.FOR FFDE413.FOR FFDE415.FOR FFDE416.FOR FFDE420.FOR FFDE431.FOR FFDE432.FOR FFDE433.FOR FFDE439.FOR FFDE434.FDR FFDE435.FOR FFDE436.FOR FFDE437.FOR FFDE438.FOR FFDE442.FOR FFDE443.FOR FFDE441.FOR FFDE450.FOR FFDE444.FOR FFDE445.FOR FFDE43A.FOR FFDE446.FOR FFDF003.FOR FFDF000.FOR FFDF001.FOR FFDF002.FOR FFDF004.FOR FFDF005.FOR FFIRST.FOR FGD0001.FOR FGD000D.FOR FGD000E.FOR F000103.FOR F000305.FOR F000102.FOR F000104.FOR F000203.FOR F000312.FOR F000204.FOR F000313.FOR F000202.FOR F000300.FOR F000310.FOR F000311.FOR F000317.FOR F000323.FOR F000329.FOR F000314.FDR FD00315.FOR F000316.FDR F000318.FOR F000319.FOR F000321.FOR F000327.FOR F000333.FOR F000324.F0R F000330.F0R F000325.F0R F000331.F0R F000320.FOR F000322.FOR F000326.FOR F000328.FDR F000332.FOR F000334.FOR F000335.FOR F000336.FOR F000337.FOR F000338.FDR F000339.FDR F000340.FOR F000341.FOR F000342.FOR F000343.FOR F000348.FDR F000347.FOR F000349.FDR F000350.FOR F000351.FOR F000352.FOR F000353.FOR F000355.FOR F000354.FOR F000358.FOR F000356.FOR F000357.FOR F000360.FOR F000359.FOR F000361.FOR F000362.FOR F000390.FOR F000391.FOR F000500.FOR F000502.FOR F000512.FOR F000402.FDR F000403.FOR F000404.FOR F000503.FOR F000507.FOR F000517.FOR F000509.FOR F000513.FOR F000504.FOR F000508.FOR F000514.FOR F000518.FOR F000602.FOR F000519.FOR F000603.FOR F000604.FOR F000605.FOR F000606.FDR F000607.FOR F000702.FDR F000703.FOR F000705.FOR F000711.FOR F000706.F0R F000713.F0R F000708.FOR F000715.FOR F000709.FOR F000716.FOR F000704.FOR F000707.FOR F000714.FOR F000710.FOR F000717.FOR F000718.FOR F000719.FOR F000720.FOR F000721.FOR FOD0344.FOR FOD036X.FOR FFD451U.USE FOD036Z.FOR FORTYP.USE FOD0345.FOR FOD0346.FOR FOD036Y.FOR FFD4566.USE FORDMP.FOR SYSBLK FOR FORSYS.FOR TYPFOR.USE JFJ3502.CPL JFJ3601.CPL JFÖPÖOO.CPL JFJ3503.CPL JAOPODO.CPL JFJ3500.CPL JFJ3501.CPL JFJ3504.CPL JFJ3513.CPL JFJ3514.CPL JFJ3600.CPL JFJ3602.CPL JFJ3606.CPL JFJ3701.CPL JFJ3603.CPL JFJ3604.CPL JFJ3605.CPL JFJ3607.CPL JFJ3608.CPL JFJ3610.CPL JFJ3700.CPL JFJ3702.CPL JFJ3703.CPL JFJ3609.CPL JFJ4518.CPL JFJ451E.CPL JFJ3802.CPL JFJ3800.CPL JFJ3801.CPL JFJ3803.CPL JFJ3804.CPL JFJ4519.CPL JFJ451A.CPL JFJ451B.CPL JFJ451C.CPL JFJ451D.CPL JFJ451F.CPL JFJ451G.CPL JFJ451K.CPL JFJ451L.CPL JFJ451M.CPL JFJ451P.CPL JFJ451Q.CPL JFJ451X.CPL JFJ5305.CPL JFJ451Y.CPL JFJ5306.CPL JFJ451V.CPL JFJ451H.CPL **JFJ5300.CPL** JFJ5302.CPL JFJ5303.CPL JFJ5301.CPL JFJ5307.CPL JFJ5401.CPL JFJ5407.CPL JFJ5403.CPL JFJ5502.CPL JFJ5402.CPL JFJ5405.CPL JFJ5400.CPL JFJ5404.CPL JFJ5501.CPL JFJ5503.CPL JFJ5504.CPL JFJ5406.CPL JFJ5508.CPL JFJ550A.CPL JFJ5509.CPL JFJ550B.CPL JFJ5506.CPL JFJ5507.CPL JFJ6014.CPL JFJ6023.CPL JFJ6016.CPL JFJ6025.CPL JFJ6015.CPL JFJ6018.CPL JFJ6017.CPL JFJ6013.CPL JFJ6024.CPL JFJ6026.CPL JFJ6019.CPL JFJ6027.CPL JFJ6029.CPL JFJ6030.CPL JFJ6032.CPL JFJ6031.CPL JFJ6043.CPL JFJ6028.CPL JFJ6044.CPL JFJ6045.CPL JFJ6051.CPL JFJ6046.CPL JFJ6047.CPL JFJ6048.CPL JFJ6049.CPL JFJ6052.CPL JFJ6050.CPL JFJ6060.CPL JFJ6061.CPL JFJ6062.CPL JFJ6665.CPL JFJ6072.CPL JFJ6066.CPL JFJ6073.CPL JFJ6068.CPL JFJ6064.CPL JFJ6067.CPL JFJ6063.CPL JFJ6074.CPL JFJ6070.CPL JFJ6071.CPL JFJ6075.CPL JFJ6077.CPL JFJ6078.CPL JFJ6100.CPL JFJ6108.CPL JFJ6112.CPL JFJ6076.CPL JFJ6114.CPL JFJ6115.CPL JFJ6117.CPL JFJ6116.CPL JFJ6118.CPL JFJ6113.CPL JFJ6134.CPL JFJ6119.CPL JFJ6132.CPL JFJ6133.CPL JFJ6135.CPL JFJ6136.CPL JFJ6137.CPL JFJ6139.CPL JFJ6143.CPL JFJ6144.CPL JFJ6138.CPL JFJ6142.CPL JFJ6146.CPL JFJ6147.CPL JFJ6149.CPL JFJ6148.CPL JFJ6152.CPL JFJ6145.CPL JFJ6155.CPL JFJ6156.CPL JFJ6153.CPL JFJ6154.CPL JFJ6157.CPL JFJ6158.CPL JFJ6165.CPL JFJ6173.CPL JFJ6159.CPL JFJ6164.CPL JFJ6172.CPL JFJ6162.CPL JFJ6163.CPL JFJ6166.CPL JFJ6169.CPL JFJ6168.CPL JFJ6174.CPL JFJ6167.CPL JFJ6178.CPL JFJ6175.CPL JFJ6176.CPL JFJ6177.CPL JFJ6179.CPL JFJ6182.CPL JFJ6185.CPL JFJ6192.CPL JFJ6186.CPL JFJ6193.CPL JFJ6183.CPL JFJ6184.CPL JFJ6187.CPL JFJ6188.CPL JFJ6191.CPL JFJ6194.CPL JFJ6195.CPL JFJ6189.CPL

Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

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JFJ6196.CPL
                       JFJ6197.CPL
                                                                    JFJ619A.CPL
                                                                                          JFJ619B.CPL
                                                                                                                 JFJ619C.CPL
                                             JFJ6198.CPL
                       JFJ619E.CPL
                                                                                                                 JFJ619J.CPL
                                                                    JFJ619G.CPL
JFJ619D.CPL
                                             JFJ619F.CPL
                                                                                          JFJ619H.CPL
                                                                                                                 JFJ619P.CPL
JFJ619K.CPL
                                                                    JFJ619N.CPL
                       JFJ619L.CPL
                                             JFJ619M.CPL
                                                                                          JFJ6190.CPL
                      JFJ6213.CPL
JFJ6213.CPL
JFJ6219.CPL
JFJ6228.CPL
JFJ6264.CPL
JFJ6260.CPL
                                                                   JFJ6215.CPL
JFJ6224.CPL
JFJ6230.CPL
JFJ6236.CPL
JFJ6252.CPL
                                                                                          JFJ6216.CPL
JFJ6225.CPL
JFJ6231.CPL
JFJ6247.CPL
                                                                                                                 JFJ6217.CPL
JFJ6226.CPL
                                             JFJ6214.CPL
JFJ6223.CPL
JFJ619Q.CPL
JFJ6218.CPL
JFJ6227.CPL
                                                                                                                 JFJ6232.CPL
JFJ6248.CPL
                                             JFJ6229.CPL
JFJ6243.CPL
JFJ6249.CPL
                                             JFJ6245.CPL
JFJ6251.CPL
                                                                                                                 JFJ6806.CPL
                                                                                          JFJ6802.CPL
                                                                                          JFJ680G.CPL
JFJ6820.CPL
JFJ6808.CPL
                                                                    JFJ68DE.CPL
                       JFJ680A.CPL
                                             JFJ680C.CPL
                                                                                                                 JFJ680I.CPL
                       JFJ6814.CPL
JG0P000.CPL
JFJ6810.CPL
                                                                                                                 JFJ6822.CPL
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JF05211.JOV
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JF06072.JOV
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JF06132.JOV
JF06110.JOV
                                                                    JF06113.JOV
                                                                                          JF06114.JOV
JF06122.JOV
                      JF06111.JOV
                                                                    JF06119.JDV
                      JF06117.JOV
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JF06133.JOV
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                                             JF06135.JOV
                                                                   JF06136.JOV
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Table A-1 ACPS ANSI Tape Contents Volume ACPS (continued)

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Table A-1 ACPS ANSI Tape Contents Volume ACPS (concluded)

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JFJ6260.USE	JFJ6261.USE	JFJ6262.USE	JFJ6263.USE	JFJ6264.USE	JFJ6265.USE
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JGD0008.USE	JGN000J.USE	J000317.USE	J000318.USE	J000319.USE	J000320.USE
JO00321.USE	J000322.USE	JOJ0317.USE	JOJ0318.USE	JOJO320.USE	JOJ0321.USE
JOVTYP.USE	Typjov.USE	JGF0001.FOR	JGF000E.FOR	Sysjov.for	TMPDMP.FOR
JOVMATH.DAT CCOMPA.CMN	CCOMPV.CMN	CEXECA.CMN	CEXECV.CMN	CCOMP.FOR	CEXEC.FOR

Table A-2. ACPS ANSI Tape Contents Volume ACPS02

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ADA CFDE401.ADA CFDE245.ADA CFDE402.ADA CFDE404.ADA CFDE405.ADA CFDE406.ADA CFDE403.ADA CFDE407.ADA CFDE408.ADA CFDE413.ADA CFDE432.ADA CFDE409.ADA CFDE40A.ADA CFDE411.ADA CFDE412.ADA CFDE414.ADA CFDE416.ADA CFDE420.ADA CFDE415.ADA CFDE431.ADA CFDE433.ADA CFDE434.ADA CFDE435.ADA CFDE436.ADA CFDE437.ADA CFDE438.ADA CFDE439.ADA

Table A-2. ACPS ANSI Tape Contents Volume ACPS02 (Continued)

CFDE43A.ADA CFDE441.ADA CFDE442.ADA CFDE444.ADA CFDE445.ADA CFDE443.ADA CFDE450.ADA CFDF000.ADA CFDF002.ADA CFDF003.ADA CFDE446.ADA CFDF001.ADA CFDF005.ADA CFM9A03.ADA CFM9A01.ADA CFDF004.ADA CFM9A00.ADA CFM9A02.ADA CFMB001.ADA CFMB002.ADA CFMB012.ADA CFMB005.ADA CFMB000.ADA CFMB003.ADA CFMB004.ADA CFMB015.ADA CFMB010.ADA CFMB011.ADA CFMB013.ADA CFMB014.ADA CFMB017 . ADA CFMB020.ADA CFMB016.ADA CFMB018.ADA CFMB019.ADA CFMB029.ADA CFMB030.ADA CFMB031.ADA CFMB032.ADA CFMB042.ADA CFMB035.ADA CFMB034.ADA CFMB033.ADA CFN9300.ADA CFMB036.ADA CFMB041.ADA CFMB043.ADA CFMB044.ADA CFN9510.ADA CG0000C.ADA CFN9511.ADA CG0P000.ADA CFN9610.ADA CFN9301.ADA CFN9302.ADA CFN9303.ADA CFN9612.ADA CFN9613.ADA CGD0003.ADA CGD0000.ADA CFN9611.ADA CGD0001.ADA CGD0007.ADA CGD0004.ADA CGD0006.ADA CGD0002.ADA CGD0005.ADA CGD0009.ADA CGD0049.ADA CGDOODE.ADA CGD0019.ADA CGD0008.ADA CGD0029.ADA CGD0039.ADA CGN000G.ADA CGN000H.ADA CGN000F.ADA CL09101.ADA CGNDDDJ.ADA CGN000I.ADA CGNODOK.ADA CL09000.ADA CL09100.ADA CL09100.ADA CLD9200.ADA CLD9223.ADA CLDE2C1.ADA CLDE4C1.ADA C000102.ADA C000112.ADA C000207.ADA C000311.ADA CLD9202.ADA CLD9232.ADA CLDE2C2.ADA CLDE4C2.ADA CL09131.ADA CLD9213.ADA CLDE2B1.ADA CL09121.ADA CLD9212.ADA CLOPODO . ADA CL09111.ADA CLD9222.ADA CLDE2B2.ADA CLDE4B2.ADA CO00002.ADA CLD9203.ADA CLD9233.ADA CLDE2C5.ADA CLDEDOO.ADA CLDE4B1.ADA CO00001.ADA CL DE2C6.ADA CLDE4C6 . ADA CLDE4C5.ADA C000104.ADA C000103.ADA C000107.ADA C000108.ADA C000109.ADA C000113.ADA C000203.ADA C000305.ADA C000315.ADA C000321.ADA C000202.ADA C000208.ADA C000114.ADA C000204.ADA C000300.ADA C000209.ADA C000313.ADA C000310.ADA C000312.ADA C000314.ADA C000320.ADA C000316.ADA C000322.ADA C000317.ADA C000318.ADA C000324.ADA C000319.ADA C000323.ADA C000325.ADA C000331.ADA C000326.ADA C000332.ADA C000327.ADA C000333.ADA C000328.ADA C000334.ADA C000330.ADA C000336.ADA C000329.ADA C000335.ADA C000340.ADA C000337.ADA C000338.ADA C000339.ADA C000341.ADA C000342.ADA C000347.ADA C000353.ADA C000359.ADA C000365.ADA C000343.ADA C000352.ADA C000348.ADA C000354.ADA C000349.ADA C000355.ADA C000351.ADA C000357.ADA C000350.ADA C000356.ADA C000361.ADA C000367.ADA C00036G.ADA C000362.ADA C000368.ADA C00036H.ADA C000358.ADA C000360.ADA C000363.ADA C000366.ADA C00036F.ADA C000369.ADA C000361.ADA C000364.ADA CO0036A.ADA CO0036B.ADA CODD36J.ADA CO0036K.ADA COOD36L.ADA CODD36M.ADA COOD36N.ADA CO0036U.ADA C000376.ADA C000403.ADA C000507.ADA C000377.ADA C000404.ADA C000374.ADA C000391.ADA C000375.ADA C000402.ADA CO0036V.ADA CO0036H.ADA C000378.ADA C000390.ADA C000500.ADA C000502.ADA C000503.ADA C000504.ADA C000508.ADA C000517.ADA C000605.ADA C000705.ADA C000509.ADA C000512.ADA C000513.ADA C000514.ADA C000518.ADA C000602.ADA C000702.ADA C000708.ADA C000603.ADA C000604.ADA C000704.ADA C000606.ADA C000519.ADA C000706.ADA C000713.ADA C000719.ADA C000607.ADA C000707.ADA C000703.ADA C000710.ADA C000717.ADA C0D0344.ADA C000709.ADA C000711.ADA C000714.ADA C000720.ADA C000716.ADA C00P000.ADA C000718.ADA C000715.ADA C000721.ADA C0D036D.ADA COD0345.ADA COD036P.ADA COD036Y.ADA CODO346.ADA CODO369.ADA CODO36C.ADA CODO36E.ADA COD0360.ADA CODO36T.ADA CODO372.ADA CODO523.ADA CODO36X.ADA CODO373.ADA CODO524.ADA CODO36Z.ADA CODO36R.ADA CODO365.ADA COD0371.ADA CODO526.ADA CODO370.ADA CODO382.ADA COD0380.ADA CODO383.ADA COD0525.ADA COD0529.ADA EF03503.ADA EF03513.ADA COD0527.ADA EF03501.ADA EADPODO.ADA EA00000.ADA COD0528.ADA EF03500.ADA EF03509.ADA EF03517.ADA EF03602.ADA EF03502.ADA EF03512.ADA EF03504.ADA EF03514.ADA EF03510.ADA EF03518.ADA EF03511.ADA EF03519.ADA EF03601.ADA EF03603.ADA EF03550.ADA EF03600.ADA EF03609 . 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Table A-2. ACPS ANSI Tape Contents Volume ACPS02 (Continued)

EF04556.ADA EF04557.ADA EF04558.ADA EF04559.ADA EF04560.ADA EF04562.ADA EF04563.ADA EF04600.ADA EF04555.ADA EF0455N.ADA EF04601.ADA EF04550.ADA EF0460F.ADA EF04602.ADA EF0460E.ADA EF0460G.ADA EF0460H.ADA EF04601.ADA EF05202.ADA EF05208.ADA EF0460J.ADA EF0460M.ADA EF05203.ADA EF05200.ADA EF05201.ADA EF05206.ADA EF0520M.ADA EF05207.ADA EF05200.ADA EF05209.ADA EF05204.ADA EF05205.ADA EF0520R.ADA EF05214.ADA EF0520B.ADA EF0520S.ADA EF0520A.ADA EF05212.ADA **EF05210.ADA** EF05211.ADA EF05215.ADA EF05213.ADA EF0521H.ADA EF0521I.ADA EF0521J.ADA EF0521K.ADA EF0521L.ADA EF0521N.ADA EF05302.ADA EF05300.ADA EF05304.ADA EF05303.ADA EF05301.ADA EF05305.ADA EF05306.ADA EF05307.ADA EF05308.ADA EF05400.ADA EF05401.ADA EF05402.ADA EF05406.ADA EF05504.ADA EF05403.ADA EF05404.ADA EF05405.ADA EF05407.ADA EF05408.ADA EF05501.ADA EF05502.ADA EF05503.ADA EF05505.ADA EF05506.ADA EF05507.ADA EF05508.ADA EF05509.ADA EF0550A.ADA EF0550B.ADA EF0550C.ADA EF06009.ADA EF0550D.ADA EF0550E.ADA EF0550F.ADA EF06001.ADA EF06010.ADA EF06013.ADA EF06014.ADA EF06011.ADA EF06016.ADA EF06017.ADA EF06015.ADA EF06019.ADA EF06027.ADA EF06018.ADA EF06023.ADA EF06024.ADA EF06022.ADA EF06025.ADA EF06026.ADA EF06030.ADA EF06028.ADA EF06029.ADA EF06031.ADA EF06032.ADA EF06043.ADA EF06044.ADA EF06045.ADA EF06046.ADA EF06033.ADA EF06047.ADA EF06048.ADA EF06049.ADA EF06050.ADA EF06051.ADA EF06052.ADA EF06062.ADA EF06068.ADA EF06053.ADA EF06060.ADA EF06061.ADA EF06063.ADA EF06064.ADA EF06069.ADA EF06067.ADA EF06073.ADA EF06065.ADA EF06066.ADA EF06070.ADA EF06071.ADA EF06072.ADA EF06074.ADA EF06075.ADA EF06076.ADA EF06100.ADA EF06101.ADA EF06113.ADA EF06077.ADA EF06078.ADA EFD6079.ADA EF06108.ADA EF06111.ADA EF06109.ADA EF06110.ADA EF06112.ADA EF06114.ADA EF06116.ADA EF06122.ADA EF06115.ADA EF06117.ADA EF06118.ADA EF06119.ADA EF06132.ADA EF06134.ADA EF06133.ADA EF06135.ADA EF06136.ADA **EF06137.ADA** EF06143.ADA EF06138.ADA EF06139.ADA EF06140.ADA EF06142.ADA EF06144.ADA EF06147.ADA EF06154.ADA EF06146.ADA EF06153.ADA EF06145.ADA EF06148.ADA EF06149.ADA EF06150.ADA EF06152.ADA EF06156.ADA EF06163.ADA EF06155.ADA **EF06157.ADA** EF06159.ADA EF06158.ADA EF06160.ADA EF06162.ADA EF06164.ADA EF06165.ADA EF06172.ADA EF06166.ADA EF06173.ADA EF06167.ADA EF06174.ADA EF06169.ADA EF06168.ADA EF06170.ADA EF06175.ADA EF06176.ADA **EF06177.ADA** EF06183.ADA EF06179.ADA EF06180.ADA EF06178.ADA EF06182.ADA EF06184.ADA EF06186.ADA EF06192.ADA EF06187.ADA EF06193.ADA EF06188.ADA EF06194.ADA EF06185.ADA EF06189.ADA EF06190.ADA EF06191.ADA EFD6195.ADA EF06196.ADA EF06197.ADA EF06199.ADA EF06198.ADA EF0619A.ADA EF0619B.ADA EF0619C.ADA EF0619G.ADA EF0619M.ADA EF0619H.ADA EF06191.ADA EF0619D.ADA EF0619E.ADA EF0619F.ADA EF0619J.ADA EF0619K.ADA EF0619L.ADA EF0619N.ADA EF06190.ADA EF0619P.ADA EF0619Q.ADA EF0619R.ADA EF06423.ADA EF06424.ADA EF06422.ADA EF06425.ADA EF0642B.ADA EF06428.ADA EF06806.ADA EF06429.ADA EF06807.ADA EF06426.ADA EF06427.ADA EF0642A.ADA EF06802.ADA EF06803.ADA EF06808.ADA EF06809.ADA EF0680B.ADA EF0680C.ADA EF0680E.ADA EF0680D.ADA EF0680A.ADA EF0680F.ADA EF06810.ADA EF06811.ADA EF06814.ADA EF06815.ADA EF06816.ADA EF06819.ADA EF06821 . 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ADA EF09713.ADA EF09720.ADA **EF09900.ADA** EFOC102.ADA EF09902.ADA EF09903.ADA EF09B01.ADA EFOC100.ADA EFDC101.ADA EFOC301.ADA EFOC307.ADA EFOC300.ADA EFOC306.ADA EFOC302.ADA EFOP000.ADA EFOC103.ADA EFOC303.ADA EFOC304.ADA EFOC305.ADA EFD3551.ADA EFD4137.ADA EFD412A.ADA EFD4136.ADA EFD4138.ADA EFD412C.ADA EFD412D.ADA EFD4135.ADA EFD4139.ADA EFD451K.ADA EFD413B.ADA EFD451M.ADA EFD413C.ADA EFD451N.ADA EFD413G.ADA EFD451P.ADA EFD413E.ADA EFD413A.ADA EFD4510.ADA EFD451L.ADA EFD451R.ADA EFD451S.ADA EFD4523.ADA EFD4525.ADA EFD451Q.ADA EFD4524.ADA EFD4526.ADA EFD455G.ADA EFD4528.ADA EFD4551.ADA EFD452A.ADA EFD455J.ADA EFD455D.ADA EFD455K.ADA EFD455E.ADA EFD455L.ADA EFD455F.ADA EFD4566.ADA EFD4568.ADA EFD4569.ADA EFD4603.ADA EFD4605.ADA EFD4567.ADA EFD4604.ADA EFD4607.ADA EFD460A.ADA EFD520C.ADA EFD4606.ADA EFD460K.ADA EFD4608.ADA EFD4609.ADA EFD460B.ADA EFD4600.ADA EFD520D.ADA EFD460L.ADA EFD46 DN. 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Table A-2. ACPS ANSI Tape Contents Volume ACPS02 (Continued)

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ADA EF06026.ADA EF06027 . 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ADA EF09500.ADA EF09502.ADA EFD6823.ADA EF06824.ADA EF09503.ADA EF09505.ADA EF09506.ADA EF09507.ADA EF09504.ADA EF09508.ADA EF09509.ADA EF09600.ADA EF09601.ADA EF09602.ADA EF09603.ADA EF09604.ADA EF09711.ADA EF09710.ADA EF09712.ADA EF09605.ADA EF09606.ADA EF09607.ADA EF09713.ADA EF09720.ADA EF09731 . ADA EF09901.ADA EF09721.ADA EF09900.ADA EF09902.ADA EF09903.ADA EF09B01.ADA EFOC102.ADA EFOC304.ADA EFOC100.ADA EFOC101.ADA EFOC302.ADA EFOC303.ADA EFOC103.ADA EFOC300.ADA EFOC301.ADA EFOC305.ADA EFOC307 . ADA EFOPDOO.ADA EFOC306.ADA EFD412A.ADA EFD3551.ADA EFD412C.ADA EFD4135.ADA EFD412D.ADA EFD4136.ADA EFD4138.ADA EFD4137.ADA EFD4139.ADA EFD413G.ADA EFD413A.ADA EFD413B.ADA EFD413C.ADA EFD413E.ADA EFD451M.ADA EFD451S.ADA EFD451K.ADA EFD451L.ADA EFD451R.ADA EFD451N.ADA EFD4510.ADA EFD451P.ADA EFD4519.ADA EFD4524.ADA EFD455E.ADA EFD4523.ADA EFD4525.ADA EFD4526.ADA EFD455F.ADA EFD4528.ADA EFD452A.ADA EFD455D.ADA EFD455J.ADA EFD455L.ADA EFD455G.ADA EFD4551.ADA EFD455K.ADA EFD4566.ADA EFD4569.ADA EFD4568.ADA EFD4567.ADA EFD4603.ADA EFD4604.ADA EFD4605.ADA EFD4606.ADA EFD460A.ADA EFD460B.ADA EFD4607.ADA EFD4608.ADA EFD4609.ADA EFD460L.ADA EFD520F.ADA EFD520D.ADA EFD520J.ADA EFD460K.ADA EFD460N.ADA EFD46 DO. ADA EFD520C.ADA EFD520E.ADA EFD520G.ADA EFD520H.ADA EFD5201.AJA EFD520P.ADA EFD521C.ADA EFD5219.ADA EFD5218.ADA EFD520N.ADA EFD520Q.ADA EFD521A.ADA EFD521D.ADA EFD521B.ADA EFD521E.ADA EFD521F.ADA EFD521K.ADA EFD521M.ADA EFD5210.ADA EFD521P.ADA EFD6209.ADA EFD6201.ADA EFD6210.ADA EFD6214.ADA EFD6217.ADA EFD6215.ADA EFD6216.ADA EFD6211.ADA EFD6213.ADA EFD6219.ADA EFD6222.ADA EFD6218.ADA EFD6223.ADA EFD6224.ADA EFD6225.ADA EFD6226.ADA EFD6227.ADA EFD6228.ADA EFD6229.ADA EFD6230.ADA EFD6231.ADA EFD6244.ADA EFD6243.ADA EFD6245.ADA EFD6232.ADA EFD6233.ADA EFD6246.ADA EFD6247.ADA EFD6248.ADA EFD6249.ADA EF96250.ADA EFD6251.ADA EFD6252.ADA

Table A-2. ACPS ANSI Tape Contents Volume ACPS02 (Concluded)

EFD6253.ADA EFD6265.ADA EFD6271.ADA EFD6377.ADA EFD6309.ADA EFD6332.ADA EFD6338.ADA EFD6338.ADA EFD6358.ADA EFD6358.ADA EFD6358.ADA EFD6378.ADA EFD6378.ADA EFD6370.ADA EFD6370.ADA EFD6370.ADA	EFD6260.ADA EFD6266.ADA EFD6272.ADA EFD6278.ADA EFD6310.ADA EFD63133.ADA EFD6339.ADA EFD6339.ADA EFD6359.ADA EFD6359.ADA EFD6359.ADA EFD6366.ADA EFD6379.ADA EFD6386.ADA EFD6386.ADA EFD6386.ADA EFD6380H.ADA EFD6310.ADA EFDC310.ADA	EFD6261.ADA EFD6267.ADA EFD6273.ADA EFD6279.ADA EFD6311.ADA EFD6334.ADA EFD6334.ADA EFD6340.ADA EFD6360.ADA EFD6367.ADA EFD6367.ADA EFD6387.ADA EFD6387.ADA EFD6387.ADA EFD6387.ADA EFD6387.ADA EFD6387.ADA EFD6387.ADA	EFD6262.ADA EFD6268.ADA EFD6274.ADA EFD6300.ADA EFD6312.ADA EFD6318.ADA EFD6335.ADA EFD6342.ADA EFD6348.ADA EFD6362.ADA EFD6368.ADA EFD6368.ADA EFD6382.ADA EFD6383.ADA EFD6383.ADA EFD6383.ADA EFD6383.ADA EFD6384.ADA	EFD6263.ADA EFD6269.ADA EFD6275.ADA EFD6301.ADA EFD6313.ADA EFD6336.ADA EFD6336.ADA EFD6349.ADA EFD6363.ADA EFD6363.ADA EFD6369.ADA EFD6383.ADA EFD6389.ADA EFD6389.ADA EFD6389.ADA EFD6389.ADA EFD6389.ADA EFD6389.ADA	EFD6264.ADA EFD6270.ADA EFD6276.ADA EFD6308.ADA EFD6314.ADA EFD6337.ADA EFD6337.ADA EFD6357.ADA EFD6357.ADA EFD6357.ADA EFD6364.ADA EFD6377.ADA EFD6384.ADA EFD6384.ADA EFD6380.ADA EFD6390.ADA EFD6390.ADA EFD6390.ADA EFD6390.ADA
EFDD601.ADA	EFDU6UZ.ADA	EFDU6US.AUA	EFDU6U4.AVA	EFDU6US.ADA	EFDUGUG.ADA

Total of 1369 files.

Figure A-3. ACPS ANSI Tape Contents Volume ACPS03

EFDD609.ADA EFDD610.ADA EFDD611.ADA EFDDA01.ADA EFDDA02.ADA EFDEODO.ADA EFDE204.ADA EFDE202.ADA EFDE203.ADA EFDE205.ADA EFDE206.ADA EFDE201.ADA EFDE211.ADA EFDE212.ADA EFDE208.ADA EFDE209.ADA EFDEZOA.ADA EFDE207.ADA EFDE220.ADA EFDE236.ADA EFDE242.ADA EFDE231.ADA EFDE213.ADA EFDE214.ADA EFDE215.ADA EFDE216.ADA EFDE234.ADA EFDE23A.ADA EFDE246.ADA EFDE405.ADA EFDE233.ADA EFDE239.ADA EFDE237.ADA EFDE232.ADA EFDE235.ADA EFDE238.ADA EFDE241.ADA EFDE250.ADA EFDE243.ADA EFDE245.ADA EFDE401.ADA EFDE402.ADA EFDE244.ADA EFDE403.ADA EFDE407.ADA EFDE408.ADA EFDE404.ADA EFDE406.ADA EFDE413.ADA EFDE414.ADA EFDE409.ADA EFDE411.ADA EFDE412.ADA EFDE40A.ADA EFDE416.ADA EFDE432.ADA EFDE415.ADA EFDE420.ADA EFDE431.ADA EFDE433.ADA EFDE434.ADA EFDE435.ADA EFDE438.ADA EFDE439.ADA EFDE436.ADA EFDE437.ADA EFDE445.ADA EFDE43A.ADA EFDE441.ADA EFDE443.ADA EFDE444.ADA EFDE442.ADA EFDF001.ADA EFDF003.ADA EFDE446.ADA EFDE450.ADA EFDF000.ADA EFDF002.ADA EFM9A01 . ADA EFM9A02.ADA EFDF004.ADA EFDF005.ADA EFM9A00.ADA EFM9A03.ADA EFN9300.ADA EFN9301.ADA EFN9303.ADA EFN9510.ADA EFN9511.ADA EFN9302.ADA EFN9612.ADA EGD0002.ADA EFN9610.ADA EFN9611.ADA EFN9613.ADA EG0000C.ADA EGOPOOD.ADA EGD0001.ADA EGD0007.ADA EGD0003.ADA EGDDDDD.ADA EGD0005.ADA EGD0004.ADA EGD0009.ADA EGDOOD.ADA EGD0006.ADA EGDOODE.ADA EGD0008.ADA EGD0029.ADA EGD0019.ADA EGD0039.ADA EGD0049.ADA EGN000F.ADA EGNODOG.ADA EGNODOI.ADA ELO9111.ADA EL 09000.ADA EGNOODH.ADA EGNOOOK . ADA EGNOODJ.ADA EL09100.ADA EL D9200.ADA EL OPODO . ADA EL09101.ADA EL09121.ADA EL09131.ADA ELD9222.ADA ELDE2B2.ADA ELDE4B2.ADA ELD9213.ADA ELDE2B1.ADA EL D9202.ADA ELD9223.ADA ELD9203.ADA EL D9212.ADA ELD9233.ADA ELDE2C5.ADA ELDE4C5.ADA ELD9232.ADA ELDE2C2.ADA ELDEOOD.ADA ELDE2C6.ADA ELDEZCI.ADA ELDE4B1.ADA ELDE4C1.ADA ELDE4C2.ADA E000001.ADA E000102.ADA ELDE4C6.ADA E000002.ADA E000107.ADA E000202.ADA E000103.ADA E000104.ADA E000108.ADA E000109.ADA E000112.ADA E000113.ADA E000204.ADA E000207.ADA E000114.ADA E000203.ADA E000208.ADA E000209.ADA E000300.ADA E000305.ADA E000310.ADA E000311.ADA E000312.ADA E000313.ADA E000314.ADA E000315.ADA E000316.ADA ED00317.ADA E000319.ADA E000323.ADA E000329.ADA E000318.ADA E000320.ADA E000326.ADA E000321.ADA E000327.ADA E000322.ADA E000328.ADA E000324.ADA E000325.ADA E000330.ADA E000331.ADA E000332.ADA E000333.ADA E000334.ADA E000335.ADA E000338.ADA E000347.ADA E000337.ADA E000340.ADA E000339.ADA E000341.ADA E000336.ADA E000349.ADA E000342.ADA E000343.ADA E000348.ADA E000350.ADA E000354.ADA E000360.ADA E000355.ADA E000356 . ADA E000351.ADA E000352.ADA E000353.ADA E000357 . ADA E000359.ADA E000365.ADA E000361.ADA E000358.ADA E000362.ADA E000366.ADA E00036F.ADA E000368.ADA E00036H.ADA E000363.ADA E000364.ADA E000367.ADA E000369.ADA E00036A.ADA E00036B.ADA E00036G.ADA E000361.ADA E00036J.ADA E00036K.ADA E00036L.ADA E00036M.ADA ED0036N.ADA E000374.ADA E000391.ADA E000375.ADA E000402.ADA E00036U.ADA E000377.ADA E00036V.ADA E000378.ADA E00036H.ADA E000390.ADA E000376.ADA E000403.ADA E000504.ADA E000507.ADA E000404.ADA E000500.ADA E000502.ADA E000503.ADA E000509.ADA E000512.ADA E000602.ADA E000517.ADA E000605.ADA E000508.ADA E000513.ADA E000514.ADA E000603.ADA E000604.ADA E000518.ADA E000519.ADA E000607.ADA E000707.ADA E000703.ADA E000606.ADA E000702.ADA E000704.ADA E000705.ADA E000706.ADA E000708.ADA E000709.ADA E000710.ADA E000711.ADA E000713.ADA E000714.ADA E000716 . ADA E000717.ADA E000718.ADA E000715.ADA E000720.ADA ECOPODO.ADA EDD0345.ADA E000719.ADA E000721.ADA EDD0344.ADA EOD0346.ADA EODO36C.ADA EDD036D.ADA EODO36E.ADA EODO360.ADA EDD036P.ADA EODO36X.ADA EODO373.ADA EODO36S.ADA EODO371.ADA EDD036T.ADA EDD036Q.ADA EODO36R.ADA EDD036Y.ADA EODO370.ADA EOD0372.ADA EODO380.ADA EOD036Z.ADA EODO382.ADA EODO527.ADA EOD0381.ADA EOD0383.ADA EOD0523.ADA EOD0524.ADA EDD0525.ADA EOD0528.ADA EOD0529.ADA DURDMP . ADA DURSYS, ADA EOD0526.ADA OURSYSR.ADA \$A00000.ADA SAOPOOO.ADA SF03501.ADA SF03502.ADA SF03500.ADA SF03503.ADA SF03504.ADA SF03509.ADA SF03510.ADA SF03511.ADA SF03512.ADA SF03513.ADA SF03514.ADA SF03519.ADA SF03550.ADA SF03517.ADA SF03518.ADA SF03600.ADA SF03602.ADA SF03604.ADA SF03601.ADA SF03603.ADA SF03605.ADA SF03607.ADA SF03609.ADA SF03611.ADA SF03606.ADA SF03608.ADA SF03610.ADA SF03616.ADA SF03617.ADA SF03612.ADA SF03613.ADA SF03614.ADA SF03615.ADA SF03620.ADA SF03631.ADA SF03619.ADA SF03618.ADA SF03630.ADA SF03632.ADA S+03633.ADA SF03634.ADA SF03635.ADA SF03636.ADA SF03637.AJA SF03638.ADA SF03641.ADA SF03647.ADA SF03643.ADA SF03644.ADA SF03645.ADA SF03639.ADA SF03642.ADA SF03648.ADA SF03649.ADA SF03650.ADA SF03700.ADA SF03646.ADA SF03701.ADA SF03702.ADA SF03703.ADA SF03704.ADA SF03800.ADA SF03801.ADA \$F04120.ADA SF03802.ADA SF03804.ADA SF03805.ADA SF04121.ADA SF03803.ADA SF04126 . ADA SF04122.ADA SF04123.ADA SF04124.ADA SF04125.ADA SF04127.ADA SF04129.ADA SF04132.ADA SF0412B.ADA SF04130.ADA SF04131.ADA SF04133.ADA SF04131.ADA SF0413K.ADA SF04310.ADA SF0413D.ADA SF0413J.ADA SF0413H.ADA SF04511.ADA SF04512.ADA SF04311.ADA SF04312.ADA SF04510.ADA SF04513.ADA

Figure A-3. ACPS ANSI Tape Contents Volume ACPS03 (Continued)

SF04514.ADA SF04515.ADA SF04518.ADA SF04519.ADA SF04516.ADA SF04517.ADA SF0451B.ADA SF0451A.ADA SF0451C.ADA SF0451F.ADA SF0451D.ADA SF0451E.ADA SF0451V.ADA SF0451H.ADA SF04511.ADA SF0451G.ADA SF0451J.ADA SF0451H.ADA SF04520.ADA SF04531.ADA SF04537.ADA SF04522.ADA SF0451X.ADA SF0451Y.ADA SF0451Z.ADA SF04521.ADA SF04529.ADA SF04532.ADA SF04538.ADA SF04533.ADA SF04539.ADA SF04527.ADA SF04530.ADA SF04536.ADA SF0453C.ADA SF04553.ADA SF04535.ADA SF04534.ADA SF0453A.ADA SF0453B.ADA SF04540.ADA SF04541.ADA SF04550.ADA SF04551.ADA SF04557.ADA SF04562.ADA SF04555.ADA SF04550.ADA SF04556 . ADA SF04552.ADA SF04554.ADA SF04558.ADA SF04559.ADA SF04560.ADA SF0455N.ADA SF04563.ADA SF0460G.ADA SF04600.ADA SF0460H.ADA SF04601.ADA SF04601.ADA SF0460E.ADA SF04602.ADA SF0460F.ADA SF05200.ADA SF05206.ADA SF0460J.ADA SF0460M.ADA SF05201.ADA SF05207.ADA SF05200.ADA SF05202.ADA SF05204.ADA SF05205.ADA SF05203.ADA SF05208.ADA SF0520R.ADA SF05209.ADA SF0520S.ADA SF0520A.ADA SF0520B.ADA SF0520M.ADA SF05210.ADA SF05211.ADA SF05214.ADA SF0521L.ADA SF05304.ADA SF05213.ADA SF0521K.ADA SF05303.ADA SF05400.ADA SF05212.ADA SF0521J.ADA SF0521H.ADA SF05211.ADA SF05215.ADA SF0521N.ADA SF05305.ADA SF05301.ADA SF05307.ADA SF05300.ADA SF05306.ADA SF05302.ADA SF05401.ADA SF05407.ADA SF05308.ADA SF05404.ADA SF05402.ADA SF05403.ADA SF05405.ADA SF05406.ADA SF05502.ADA SF05408.ADA SF05501.ADA SF05507 . 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ADA SF09600.ADA SF09603.ADA SF09605.ADA SF09601.ADA SF09602.ADA SF09604.ADA SF09606.ADA SF09710.ADA SF09731.ADA SF09711.ADA SF09900.ADA SF09712.ADA SF09901.ADA SF09713.ADA SF09902.ADA SF09720.ADA SF09607.ADA SF09721.ADA SF09903.ADA SFOC101.ADA SFOC303.ADA SFOC300.ADA SFOC306.ADA SFOD729.ADA SFOC102.ADA SFOC103.ADA SF09B01.ADA SFOC100.ADA SFOC305.ADA SFOD728.ADA SFOC301.ADA SFOC307.ADA SFOC302.ADA SFOP720.ADA SFOC304.ADA SFOD727.ADA SFOD721.ADA SF' 00.ADA SFD3551.ADA SFD412C.ADA SFOD72D.ADA SFD412A.ADA SFD412D.ADA SFU-136.ADA SFD413C.ADA SFD4137.ADA SFD413E.ADA SFD4138.ADA SFD413G.ADA SFD4139.4DA SFD451K.ADA SrD4135.ADA SFD413A.ADA SFD413B.ADA SFD451L.ADA SFD4510.ADA SFD451P.ADA SFD451Q.ADA SFD451M.ADA SFD451N.ADA SFD451R.ADA SFD4525.ADA SFD455F.ADA SFD4526.ADA SFD451S.ADA SFD4523.ADA SFD4524.ADA SFD4528.ADA SFD455E.ADA SFD455G.ADA SFD452A.ADA SFD455D.ADA SFD4551.ADA SFD455L.ADA SFD4567.ADA SFD455J.ADA SFD455K.ADA SFD4566.ADA SFD4568.ADA SFD4606.ADA SFD4569.ADA SFD4604.ADA SFD4607.ADA SFD4603.ADA SFD4605.ADA SFD460K.ADA SFD4608.ADA SFD460N.ADA SFD4609.ADA SFD460A.ADA SFD460B.ADA SFD460L.ADA SFD4600.ADA SFD4800.ADA SFD4801.ADA SFD4802.ADA SFD4803.ADA

Figure A-3. ACPS ANSI Tape Contents Volume ACPS03 (Continued)

SFD520C.ADA SFD520I.ADA SFD520D.ADA SFD520G.ADA SFD4804.ADA SFD520E.ADA SFD520F.ADA SFD520Q.ADA SFD521D.ADA SFD520P.ADA SFD520H.ADA SFD520J.ADA SFD520N.ADA SFD5218.ADA SFD521C.ADA SFD5219.ADA SFD521A.ADA SFD521B.ADA SFD521F.ADA SFD6209.ADA SFD6216.ADA SFD521M.ADA SFD6211.ADA SFD521K.ADA SFD521E.ADA SFD5210.ADA SFD521P.ADA SFD6213.ADA SFD6219.ADA SFD6227.ADA SFD6214.ADA SFD6222.ADA SFD6228.ADA SFD6210.ADA SFD6201.ADA SFD6217.ADA SFD6225.ADA SFD6218.ADA SFD6226.ADA SFD6215.ADA SFD6216.ADA SFD6224.ADA SFD6230.ADA SFD6245.ADA SFD6251.ADA SFD6263.ADA SFD6269.ADA SFD6275.ADA SFD6223.ADA SFD6226.ADA SFD6232.ADA SFD6247.ADA SFD6253.ADA SFD6265.ADA SFD6271.ADA SFD6277.ADA SFD6309.ADA SFD6315.ADA SFD6248.ADA SFD6248.ADA SFD6260.ADA SFD6231.ADA SFD6246.ADA SFD6252.ADA SFD6229.ADA SFD6243.ADA SFD6249.ADA SFD6244.ADA SFD6250.ADA SFD6261.ADA SFD6264.ADA SFD6270.ADA SFD6276.ADA SFD6266.ADA SFD6272.ADA SFD6278.ADA SFD6267.ADA SFD6273.ADA SFD6279.ADA SFD6262.ADA SFD6268.ADA SFD6274.ADA SFD6300.ADA SFD6310.ADA SFD6316.ADA SFD6311.ADA SFD6317.ADA SFD6334.ADA SFD6340.ADA SFD6301.ADA SFD6308.ADA SFD6313.ADA SFD6319.ADA SFD6336.ADA SFD6314.ADA SFD6322.ADA SFD6337.ADA SFD6315.ADA SFD6332.ADA SFD6338.ADA SFD6312.ADA SFD6333.ADA SFD6339.ADA SFD6346.ADA SFD6318.ADA SFD6335.ADA SFD6344.ADA SFD6350.ADA SFD6345.ADA SFD6352.ADA SFD6358.ADA SFD6343.ADA SFD6342.ADA SFD6347.ADA SFD6348.ADA SFD6349.ADA SFD6356.ADA SFD6353.ADA SFD6359.ADA SFD6354.ADA SFD6360.ADA SFD6355. ADA SFD6357.ADA SFD6364.ADA SFD6365.ADA SFD6372.ADA SFD6378.ADA SFD6362.ADA SFD6363.ADA SFD6366.ADA SFD6367.ADA SFD6370.ADA SFD6377.ADA SFD6384.ADA SFD6374.ADA SFD6380.ADA SFD6387.ADA SFD6369.ADA SFD6373.ADA SFD6379.ADA SFD6368.ADA SFD6375.ADA SFD6382.ADA SFD6376.ADA SFD6383.ADA SFD6385.ADA SFD6386.ADA SFD6801.ADA SFD6388.ADA SFD6389.ADA SFD6390.ADA SFD680G.ADA SFD680H.ADA SFD9200.ADA SFDC106.ADA SFD9000.ADA SFD680J.ADA SFD9C00.ADA SFD9C01.ADA SFD9C02.ADA SFDC310.ADA SFDD602.ADA SFDC311.ADA SFDD603.ADA SFDC104.ADA SFDC105.ADA SFDC107.ADA SFDC314.ADA SFDC314.ADA SFDD605.ADA SFDD722.ADA SFDD72C.ADA SFDDA01.ADA SFDE204.ADA SFDC313.ADA SFDD600.ADA SFDD601.ADA SFDD600.ADA SFDD606.ADA SFDD723.ADA SFDD72E.ADA SFDDA02.ADA SFDE205.ADA SFDE211.ADA SFDD607.ADA SFDD724.ADA SFDD72F.ADA SFDE000.ADA SFDD609.ADA SFDD725.ADA SFDD72G.ADA SFDD610.ADA SFDD72A.ADA SFDD72H.ADA SFDD604.ADA SFDD611.ADA SFDD72B.ADA SFDE202.ADA SFDE208.ADA SFDE214.ADA SFDE201.ADA SFDE207.ADA SFDD721.ADA SFDE203.ADA SFDE206.ADA SFDE212.ADA SFDE231.ADA SFDE237.ADA SFDE243.ADA SFDE209.ADA SFDEZOA.ADA SFDE213.ADA SFDE232.ADA SFDE238.ADA SFDE244.ADA SFDE403.ADA SFDE409.ADA SFDE216.ADA SFDE235.ADA SFDE241.ADA SFDE250.ADA SFDE215.ADA SFDE234.ADA SFDE220.ADA SFDE236.ADA SFDE242.ADA SFDE233.ADA SFDE239.ADA SFDE245.ADA SFDE23A.ADA SFDE401.ADA SFDE407.ADA SFDE413.ADA SFDE246.ADA SFDE402.ADA SFDE404.ADA SFDE40A.ADA SFDE406.ADA SFDE405.ADA SFDE408.ADA SFDE414.ADA SFDE415.ADA SFDE416.ADA SFDE411.ADA SFDE412.ADA SFDE431.ADA SFDE437.ADA SFDE432.ADA SFDE433.ADA SFDE420.ADA SFDE434.ADA SFDE435.ADA SFDE436.ADA SFDE438.ADA SFDE441.ADA SFDE439.ADA SFDE43A.ADA SFDE450.ADA SFDF005.ADA SFDE442.ADA SFDE443.ADA SFDE445.ADA SFDE446.ADA SFDE444.ADA SFDF000.ADA SFDF001.ADA SFDF002.ADA SFDF003.ADA SFDF004.ADA SFM9A01.ADA SFM9A02.ADA SFMB004.ADA SFM9A00.ADA SFM9A03.ADA SFMB000.ADA SFMB001.ADA SFMB003.ADA SFMB007.ADA SFMB013.ADA SFMB002.ADA SFMB005.ADA SFMB006.ADA SFMB011.ADA SFMB017.ADA SFMB009.ADA SFMB012.ADA SFMB008.ADA SFMB010.ADA SFMB016.ADA SFMB022.ADA SFMB014.ADA SFMB015.ADA SFMB018.ADA SFMB019.ADA SFMB020.ADA SFMB021.ADA SFMB027.ADA SFMB024.ADA SFMB023.ADA SFMB025.ADA SFMB031.ADA SFMB037.ADA SFMB030.ADA SFMB026.ADA SFMB028.ADA SFMB029.ADA SFMB033.ADA SFMB039.ADA SFMB036.ADA SFMB035.ADA SFMB032.ADA SFMB034.ADA SFMB041.ADA SFN9302.ADA SFN9612.ADA SFMB042.ADA SFN9303.ADA SFMB040.ADA SFMB043.ADA SFMB038.ADA SFN9510.ADA SFN9300.ADA SFN9301.ADA SFMB044.ADA SG0000C.ADA SFN9613.ADA SFN9511.ADA SFN9610.ADA SFN9611.ADA SGOPOOO.ADA SGDODOO.ADA SGD0001.ADA SGD0007.ADA SGD0003.ADA SGD0009.ADA SGD0004.ADA SGDDDD2.ADA SGD0008.ADA SGD0005.ADA SGD0006 . ADA SGD000D.ADA SGDODDE.ADA SGD0019.ADA SGD0029.ADA SGD0039.ADA SGD0049.ADA SGNDODF.ADA SGN0001.ADA SL09111.ADA SLD9203.ADA SGNOODJ.ADA SLO9121.ADA SGNODOG.ADA SL09100.ADA SL09000.ADA SGNODOK.ADA SGNDDOH.ADA SL09131.ADA SL09101.ADA SLOPOOD. ADA SL D9202.ADA SL D9232.ADA SL DE2C2.ADA SL DE4C2.ADA SLD9213.ADA SL D9200 . ADA SLD9212.ADA SL D9222. ADA SLD9233.ADA SLDE2C5.ADA SLDEZBI.ADA SLDE4BI.ADA SLDEDOD.ADA SLDE2B2.ADA SI. D9223. ADA SLDEZCO . ADA SLDEZCI.ADA SLDE4B2.ADA SLDE4C1 . ADA SLDE4C5.ADA SLDE4C6.ADA \$000002.ADA 5000001.ADA \$000104.ADA \$000114.ADA \$000209.ADA S000109.ADA S000204.ADA S000310.ADA \$000103.ADA \$000107.ADA \$000202.ADA 5000108.ADA S000102.ADA 5000203.ADA S000112.ADA S000113.ADA 5000207.ADA S000208.ADA S000300.ADA 5000305.ADA \$000315.ADA 5000314.ADA S000311.ADA S000312.ADA S000313.ADA S000316.ADA \$000320.ADA \$000326.ADA \$000332.ADA S000317.ADA S000318.ADA 5000319.ADA 5000321.ADA S000322.ADA 5000327 . ADA \$000324.ADA S000325.ADA S000328.ADA S000323.ADA 5000329.ADA S000330.ADA S000331.ADA S000333.ADA S000334.ADA

Figure A-3. ACPS ANSI Tape Contents Volume ACPS03 (Concluded)

S000335.ADA	S000336.ADA	S000337.ADA	S000338.ADA	S000339.ADA	\$0007/0 ADA
S000341.ADA	S000342.ADA				\$000340.ADA
		S000343.ADA	S000347.ADA	S000348.ADA	S000349.ADA
5000350.ADA	S000351.ADA	S000352.ADA	S000353.ADA	S000354.ADA	S000355.ADA
S000356.ADA	5000357.ADA	S000358.ADA			3000333.ADA
			\$000359.ADA	S000360.ADA	S000361.ADA
S000362.ADA	S000363.ADA	S000364.ADA	S000365.ADA	S000366.ADA	S000367.ADA
5000368.ADA	S000369.ADA	SOOD36A.ADA	S00036B.ADA		COOCTO ADA
S00036H.ADA				500036F.ADA	S00036G.ADA
	S000361.ADA	S00036J.ADA	S00036K.ADA	S00036L.ADA	500036M.ADA
SD0036N.ADA	SD0036U.ADA	S00036V.ADA	S00036H.ADA	S000374.ADA	
S000376.ADA	S000377.ADA	S000378.ADA			S000375.ADA
5000403.ADA	5000317.000		\$000390.ADA	S000391.ADA	S000402.ADA
	5000404.ADA	S000500.ADA	5000502.ADA	S000503.ADA	S000504.ADA
S000507.ADA	S000508.ADA	S000509.ADA	S000512.ADA		
S000517.ADA	S000518.ADA			S000513.ADA	S000514.ADA
	SOUDJIB.ADA	S000519.ADA	S000602.ADA	S000603.ADA	SDDD6D4.ADA
S000605.ADA	S000606.ADA	S000607.ADA	S000702.ADA	S000703.ADA	S000704.ADA
S000705.ADA	S000706.ADA	S000707.ADA	5000708 454		
S000711.ADA			S000708.ADA	S000709.ADA	SDD0710.ADA
	S000713.ADA	S000714.ADA	S000715.ADA	S000716.ADA	S000717.ADA
S000718.ADA	S000719.ADA	S000720.ADA	S000721.ADA		5000111.000
SOD0345.ADA	SOD0346.ADA		5000721.ADA	SDOPDOD.ADA	SOD0344.ADA
	SODOJAO.ADA	SDD036C.ADA	SODO36D.ADA	SODO36E.ADA	SOD0360.ADA
SDD036P.ADA	SODO36Q.ADA	SODO36R.ADA	SOD036S.ADA	SODO36T.ADA	SOD036X.ADA
SODO36Y.ADA	SODO36Z.ADA	SODO370.ADA			
SODO380.ADA			SOD0371.ADA	SOD0372.ADA	SOD0373.ADA
	SODO381.ADA	SODO382.ADA	SODO383.ADA	SODO523.ADA	SDD0524.ADA
SODO525.ADA	SODO526.ADA	SODO527.ADA	SODO528.ADA	SODO529.ADA	7400000 404
TAOPDOO.ADA	TF03500.ADA			JUDUJET.AUA	TA00000.ADA
TF03509.ADA		TF03501.ADA	TF03502.ADA	TF03503.ADA	TF03504.ADA
	TF03510.ADA	TF03511.ADA	TF03512.ADA	TF03513.ADA	TF03514.ADA
TF03517.ADA	TF03518.ADA	TF03519.ADA	TF03550.ADA		TI UJJIT. NUA
			I FUJJJU . ADA		

Total of 1396 files.

Figure A-4. ACPS ANSI Tape Contents Volume ACPS04

TF03600.ADA TF03601.ADA TF03602.ADA TF03603.ADA TF03604.ADA TF03605.ADA TF03608.ADA TF03606.ADA TF03607.ADA TF03609.ADA TF03610.ADA TF03611.ADA TF03617.ADA TF03612.ADA TF03613.ADA TF03614.ADA TF03615.ADA TF03616.ADA TF03631.ADA TF03637.ADA TF03632.ADA TF03618.ADA TF03619.ADA TF03620.ADA TF03630.ADA TF03634.ADA TF03635.ADA TF03633.ADA TF03638.ADA TF03636.ADA TF03639.ADA TF03642.ADA TF03641.ADA TF03644.ADA TF03645.ADA TF03643.ADA TF03650.ADA TF03700.ADA TF03646.ADA TF03647.ADA TF03648.ADA TF03649.ADA TF03702.ADA TF03703.ADA TF03804.ADA TF03701.ADA TF03800.ADA TF03801.ADA TF03704.ADA TF03802.ADA TF03803.ADA TF04120.ADA TF04121.ADA TF03805.ADA TF04127 . ADA TF04122.ADA TF04123.ADA TF04124.ADA TF04125.ADA TF04126.ADA TF04129.ADA TF0412B.ADA TF0413H.ADA TF04130.ADA TF04133.ADA TF04310.ADA TF04132.ADA TF0413K.ADA TF04131.ADA TF0413D.ADA TF04131.ADA TF0413J.ADA TF04513.ADA TF04311.ADA TF04312.ADA TF04510.ADA TF04511.ADA TF04512.ADA TF04515.ADA TF0451B.ADA TF04516.ADA TF0451C.ADA TF04518.ADA TF0451E.ADA TF04519.ADA TF0451F.ADA TF04517.ADA TF0451D.ADA TF04514.ADA TF0451A.ADA TF0451H.ADA TF0451G.ADA TF0451H.ADA TF04511.ADA TF0451J.ADA TF0451V.ADA TF0451Y.ADA TF04529.ADA TF0451Z.ADA TF04530.ADA TF04520.ADA TF04531.ADA TF04521.ADA TF04532.ADA TF04522.ADA TF04533.ADA TF0451X.ADA TF04527.ADA TF04534.ADA TF04536.ADA TF0453C.ADA TF04553.ADA TF04539.ADA TF04538.ADA TF04535.ADA TF04537.ADA TF0453B.ADA TF04552.ADA TF04541.ADA TF04555.ADA TF04550.ADA TF04556.ADA TF0453A.ADA TF04540.ADA TF04551 . ADA TF04554.ADA TF04557 . ADA TF04558.ADA TF04559.ADA TF0455N.ADA TF04550.ADA TF04560.ADA TF0460E.ADA TF04562.ADA TF04563.ADA TF04600.ADA TF04601.ADA TF04602.ADA TF0460J.ADA TF0460F.ADA TF0460G.ADA TF0460I.ADA TF0460H.ADA TF0460M.ADA TF05203.ADA TF05209.ADA TF05209.ADA TF05215.ADA TF05211.ADA TF05204.ADA TF0520A.ADA TF05210.ADA TF05205.ADA TF0520B.ADA TF05211.ADA TF05201.ADA TF05207.ADA TF05200.ADA TF05202.ADA TF05208.ADA TF0520R.ADA TF05214.ADA TF0521L.ADA TF05206.ADA TF0520M.ADA TF05200.ADA TF05213.ADA TF0521H.ADA TF05211.ADA TF05212.ADA TF0521K.ADA TF05300.ADA TF0521J.ADA TF05301.ADA TF05304.ADA TF05307 . ADA TF05303.ADA TF05302.ADA TF05305.ADA TF05306.ADA TF05401.ADA TF05407.ADA TF05404 . ADA TF05308.ADA TF05400.ADA TF05402.ADA TF05403.ADA TF05405.ADA TF05406.ADA TF05501.ADA TF05408.ADA TF05502.ADA TF05503.ADA TF05504.ADA TF05505.ADA TF05506.ADA TF05507.ADA TF05508.ADA TF0550B.ADA TF06009.ADA TF0550D.ADA TF0550E.ADA TF05509.ADA TF0550A.ADA TF0550C.ADA TF06010.ADA TF0550F.ADA TF06001.ADA TF06011.ADA TF06013.ADA TF06018.ADA TF06014.ADA TF06015.ADA TF06016.ADA TF06017.ADA TF06019.ADA TF06023.ADA TF06029.ADA TF06024.ADA TF06025.ADA TF06031.ADA TF06027.ADA TF06033.ADA TF06022.ADA TF06026.ADA TF06030.ADA TF06032.ADA TF06028.ADA TF06044.ADA TF06043.ADA TF06045.ADA TF06046.ADA TF06047.ADA TF06048.ADA TF06053.ADA TF06065.ADA TF06049.ADA TF06050.ADA TF06051.ADA TF06052.ADA TF06060.ADA TF06062.ADA TF06063.ADA TF06064.ADA TF06061.ADA TF06066.ADA TF06069.ADA TFD6070.ADA TFD6068.ADA TF06067.ADA TF06071.ADA TF06072.ADA TF06073.ADA TF06074.ADA TF06075.ADA TF06076.ADA TF06077.ADA TF06078.ADA TF06101.ADA TF06109.ADA TF06079.ADA TF06100.ADA TF06110.ADA TF06108.ADA TF06111.ADA TF06114.ADA TF06122.ADA TF06116.ADA TF06112.ADA TF06113.ADA TF06115.ADA TF06117.ADA TF06118.ADA TF06119.ADA TF06132.ADA TF06133.ADA TF06136 . ADA TF06134.ADA TF06135.ADA TF06138.ADA TF06139.ADA TF06137.ADA TF06143.ADA TF06144.ADA TF06145.ADA TF06140.ADA TF06142.ADA TF06146.ADA TF06150.ADA TF06157.ADA TF06153.ADA TF06159.ADA TF06147.ADA TF06148.ADA TF06149.ADA TF06152.ADA TF06155.ADA TF06158.ADA TF06154.ADA TF06156.ADA TF06163.ADA TF06169.ADA TF06160.ADA TF06162.ADA TF06164.ADA TF06165.ADA TF06166.ADA TF06168.ADA TF06175_ADA TF06173.ADA TF06179.ADA TF06167.ADA TF06170.ADA TF06172.ADA TF06177.ADA TF06174.ADA TF06176.ADA TF06178.ADA TF06182.ADA TF06180.ADA TF06183.ADA TF06184.ADA TF06185.ADA TF06186.ADA TF06189.ADA TF06187.ADA TF06188.ADA TF06190.ADA TF06191.ADA TF06192.ADA TF06197.ADA TF06198.ADA TF06193.ADA TF06194.ADA TF06195.ADA TF06196.ADA TF06199.ADA TF0619B.ADA TF0619H.ADA TF0619C.ADA TF0619I.ADA TF0619D.ADA TF0619A.ADA TF0619G.ADA TF0619E.ADA TF0619F.ADA TF0619J.ADA TFD619K.ADA TF0619Q.ADA TF0619L.ADA TF0619M.ADA TF0619N.ADA TF06190.ADA TF0619P.ADA TF06423.ADA TF06425.ADA TF0619R.ADA TF06422.ADA TF06424.ADA TF06426.ADA Tr06427.ADA TF06429.ADA TF06428.ADA TF0642A.ADA TF0642B.ADA TF06802.ADA TF06806.ADA TF0680C.ADA TF06809.ADA TF0680A.ADA TF06803.ADA TF06807.ADA TF06808.ADA TF0680F.ADA TF0680E.ADA TF06810.ADA TF0680D.ADA TF0680B.ADA TF06814.ADA TF06815.ADA TF06816.ADA TF06817.ADA TF06818.ADA TF06811.ADA TF06824.ADA TF06819.ADA TF06820.ADA TF06821.ADA TF06822.ADA TF06823.ADA TF09503.ADA TF09500.ADA TF05504 . ADA TF09501.ADA TF09502.ADA TF06825.ADA TF09507.ADA TF09603.ADA TF09508.ADA TF09505.ADA TF09506.ADA TF09509.ADA TF09600.ADA TF09601.ADA TF09607.ADA TF09605.ADA TF09602.ADA TF09604.ADA TFD9606.ADA TF09713.ADA TF09711.ADA TF09712.ADA TF09710.ADA TF09720.ADA

Figure A-4. ACPS ANSI Tape Contents Volume ACPS04 (Continued)

TF09721.ADA TF09731.ADA TF09900.ADA TF09901.ADA TF09902.ADA TF09903.ADA TFOC100.ADA TFOC103.ADA TFOC305.ADA TFOC300.ADA TFOC306.ADA TF09B01.ADA TFOC101.ADA TFOC303.ADA TFOC102.ADA TF0C302.ADA TF0C304.ADA TFOC301.ADA TFOD721.ADA TFOD729.ADA TFOC307.ADA TFOD720.ADA TFOD727.ADA TFOD728.ADA TFD3551.ADA TFD4137.ADA TFD412C.ADA TFD4139.ADA TFD412D.ADA TFD413A.ADA TFOPOOD.ADA TFOD72D.ADA TFD412A.ADA TFD4136.ADA TFD4138.ADA TFD4135.ADA TFD413G.ADA TFD451P.ADA TFD4525.ADA TFD455F.ADA TFD451L.ADA TFD413B.ADA TFD413C.ADA TFD413E.ADA TFD451K.ADA TFD451Q.ADA TFD451R.ADA TFD451M.ADA TFD451N.ADA TFD4510.ADA TFD4523.ADA TFD455D.ADA TFD4524.ADA TFD4528.ADA TFD4526.ADA TFD4515.ADA TFD4551.ADA TFD452A.ADA TFD455E.ADA TFD455G.ADA TFD455L.ADA TFD4604.ADA TFD4566.ADA TFD4567.ADA TFD4606.ADA TFD4568 . ADA TFD455J.ADA TFD4569.ADA TFD455K.ADA TFD4607.ADA TFD4603.ADA TFD4605.ADA TFD460K.ADA TFD460K.ADA TFD54802.ADA TFD520F.ADA TFD520P.ADA TFD521C.ADA TFD521C.ADA TFD460A.ADA TFD4608.ADA TFD4609.ADA TFD460B.ADA TFD460L.ADA TFD4600.ADA TFD4803.ADA TFD520G.ADA TFD460N.ADA TFD4800.ADA TFD4801.ADA TFD520E.ADA TFD520D.ADA TFD4804.ADA TFD520C.ADA TFD5201.ADA TFD5219.ADA TFD521F.ADA TFD6209.ADA TFD520J.ADA TFD521A.ADA TFD521K.ADA TFD621O.ADA TFD520Q.ADA TFD521D.ADA TFD521P.ADA TFD520N.ADA TFD521B.ADA TFD520H.ADA TFD5218.ADA TFD521E.ADA TFD521M.ADA TFD621M.ADA TFD6211.ADA TFD6218.ADA TFD6226.ADA TFD6232.ADA TFD6247.ADA TFD6253.ADA TFD6265.ADA TFD6213.ADA TFD6213.ADA TFD6219.ADA TFD6227.ADA TFD6233.ADA TFD6248.ADA TFD6266.ADA TFD6266.ADA TFD6214.ADA TFD6201.ADA TFD6217.ADA TFD6217.ADA TFD6225.ADA TFD6231.ADA TFD6246.ADA TFD6252.ADA TFD6264.ADA TFD6222.ADA TFD6228.ADA TFD6243.ADA TFD6215.ADA TFD6216.ADA TFD6223.ADA TFD6229.ADA TFD6224.ADA TFD6230.ADA TFD6245.ADA TFD6251.ADA TFD6263.ADA TFD6249.ADA TFD6261.ADA TFD6267.ADA TFD6244.ADA TFD6250.ADA TFD6262.ADA TFD6269.ADA TFD6275.ADA TFD6301.ADA TFD6270.ADA TFD6276.ADA TFD6271.ADA TFD6277.ADA TFD6272.ADA TFD6278.ADA TFD6273.ADA TFD6279.ADA TFD6268.ADA TFD6274.ADA TFD6300.ADA TFD6309.ADA TFD6308.ADA TFD6310.ADA TFD6311.ADA TFD6316 .ADA TFD6316 .ADA TFD6333 .ADA TFD6339 .ADA TFD6346 .ADA TFD6353 .ADA TFD6359 .ADA TFD6312.ADA TFD6318.ADA TFD6313.ADA TFD6319.ADA TFD6314.ADA TFD6322.ADA TFD6315.ADA TFD6332.ADA TFD6317.ADA TFD6334.ADA TFD6336.ADA TFD6335.ADA TFD6337.ADA TFD6338.ADA TFD6340.ADA TFD6347.ADA TFD6354.ADA TFD6360.ADA TFD6345.ADA TFD6352.ADA TFD6342.ADA TFD6343.ADA TFD6344.ADA TFD6350.ADA TFD6357.ADA TFD6348.ADA TFD6349.ADA TFD6355.ADA TFD6356.ADA TFD6358.ADA TFD6365.ADA TFD6372.ADA TFD6366.ADA TFD6373.ADA TFD6367.ADA TFD6374.ADA TFD6362.ADA TFD6363.ADA TFD6364.ADA TFD6369.ADA TFD6370.ADA TFD6368.ADA TFD6375.ADA TFD6379.ADA TFD6380.ADA TFD6376.ADA **TFD6377.ADA** TFD6378.ADA TFD6382.ADA TFD6383.ADA TFD6384.ADA TFD6385.ADA TFD6386.ADA TFD6387.ADA TFD680H.ADA TFD6801.ADA TFD9C02.ADA TFD6388.ADA TFD6389.ADA TFD6390.ADA TFD680G.ADA TFD9C00.ADA TFDC107.ADA TFD9C01.ADA TFD680J.ADA TFD9000.ADA TFD9200.ADA TFDC310.ADA TFDD602.ADA TFDC311.ADA TFDD603.ADA TFDC104.ADA TFDC105.ADA TFDC314.ADA TFDC106.ADA TFDC313.ADA TFDD600.ADA TFDD601.ADA TFDD605.ADA TFDD722.ADA TFDD72C.ADA TFDDA01.ADA TFDD607.ADA TFDD609.ADA TFDD725.ADA TFDD72G.ADA TFDD604.ADA TFDD606.ADA TFDD610.ADA TFDD723.ADA TFDD72E.ADA TFDDA02.ADA TFDE205.ADA TFDD724.ADA TFDD72F.ADA TFDE000.ADA TFDE206.ADA TFDD611.ADA TFDD72B.ADA TFDD72A.ADA TFDD72H.ADA TFDD721.ADA TFDE203.ADA TFDE201.ADA TFDE207.ADA TFDE202.ADA TFDE208.ADA TFDE204.ADA TFDE20A.ADA TFDE211.ADA TFDE220.ADA TFDE236.ADA TFDE242.ADA TFDE212.ADA TFDE213.ADA TFDE214.ADA TFDE209.ADA TFDE215.ADA TFDE234.ADA TFDE216.ADA TFDE235.ADA TFDE241.ADA TFDE231.ADA TFDE237.ADA TFDE232.ADA TFDE238.ADA TFDE244.ADA TFDE233.ADA TFDE239.ADA TFDE245.ADA TFDE243.ADA TFDE23A.ADA TFDE246.ADA TFDE405.ADA TFDE250.ADA TFDE406.ADA TFDE401.ADA TFDE407.ADA TFDE402.ADA TFDE408.ADA TFDE403.ADA TFDE404.ADA TFDE409.ADA TFDE40A.ADA TFDE413.ADA TFDE432.ADA TFDE438.ADA TFDE416.ADA TFDE435.ADA TFDE414.ADA TFDE4 3.ADA TFDE434.ADA TFDE412.ADA TFDE411.ADA TFDE431.ADA TFDE437.ADA TFDE443.ADA TFDE433.ADA TFDE439.ADA TFDE420.ADA TFDE43A.ADA TFDE446.ADA TFDE441.ADA TFDE450.ADA TFDE436.ADA TFDE444.ADA TFDE445.ADA TFDE442.ADA TFDF000.ADA TFM9ADD.ADA TFDF001.ADA TFM9A01.ADA TFDF002.ADA TFM9A02.ADA TFDF003.ADA TFM9A03.ADA TFDF004.ADA TFMB000.ADA TFDF005.ADA TFMB001.ADA TFMB004.ADA TFMB005.ADA TFMB007.ADA TFMB003.ADA TFMB006.ADA TFMB002.ADA TFMB011.ADA TFMB017.ADA TFMB008.ADA TFMB009.ADA TFMB010.ADA TFMB012.ADA TFMB013.ADA TFMB016.ADA TrMB014.ADA TFMB015.ADA TFMB018.ADA TFMB019.ADA TFMB022.ADA TFMB028.ADA TFMB020.ADA TFMB023.ADA TFMB024.ADA TFMB025.ADA TFMB021.ADA TFMB030.ADA TFMB026 . ADA TFMB027.ADA TFMB029.ADA TFMB031.ADA TFMB036 . ADA TFMB032.ADA TFMB033.ADA TFMB034.ADA TFMB035.ADA TFMB037.ADA TFMB041.ADA TFN9302.ADA TFMB038.ADA TFMB039.ADA TFMB040.ADA TFMB042.ADA TFMB043.ADA TFN9303.ADA TFN9300.ADA TFN9510.ADA **TFN9301.ADA** TFMB044.ADA TFN9611.ADA TFN9612.ADA TFN9613.ADA TG0000C.ADA TFN9610.ADA TFN9511.ADA TGD0003.ADA TGD0002.ADA TGOPOOD.ADA TGD0000.ADA TGD0001.ADA TGD0004.ADA TGD0008.ADA TGD0005.ADA TGD0006.ADA TGD0007.ADA TGD0009.ADA TGDDOOD, ADA

Figure A-4. ACPS ANSI Tape Contents Volume ACPS04 (Continued)

TGD000E.ADA TGD0049.ADA TGD0029.ADA TGD0039.ADA TGN000F.ADA TGD0019.ADA TGN000G.ADA TGNOODH. ADA TGN000I.ADA TGN000J.ADA TGNOODK . ADA TL09000.ADA TLOPODO.ADA TL09100.ADA TL09101.ADA TL09111.ADA TL09121.ADA TL09131.ADA TLD9203.ADA TLD9233.ADA TLDE2C5.ADA TLDE4C5.ADA TLD9212.ADA TLDE000.ADA TLDE2C6.ADA TLD9213.ADA TLDE2B1.ADA TLDE4B1.ADA TLD9200.ADA TLD9202.ADA TLD9222.ADA TLD9223.ADA TLDE2C1.ADA TLD9232.ADA TLDE2C2.ADA TLDE4C2.ADA TLDEZBZ.ADA TLDE4B2.ADA TLDE2C6.ADA TLDE4C6.ADA T000107.ADA T000202.ADA T000300.ADA T000314.ADA T000001.ADA T000108.ADA T000203.ADA T000305.ADA TLDE4C1.ADA T000102.ADA T000002.ADA T000103.ADA T000113.ADA T000208.ADA T000104.ADA T000114.ADA T000209.ADA T000109.ADA T000112.ADA T000207.ADA T000204.ADA T000310.ADA T000313.ADA T000319.ADA T000325.ADA T000331.ADA T000337.ADA T000305.ADA T000315.ADA T000321.ADA T000327.ADA T000333.ADA T000312.ADA T000318.ADA T000324.ADA T000316.ADA T000322.ADA T000328.ADA T000311.ADA T000317.ADA T000326.ADA T000332.ADA T000338.ADA T000323.ADA T000329.ADA T000335.ADA T000330.ADA T000334.ADA T000336.ADA T000342.ADA T000340.ADA T000347.ADA T000353.ADA T000359.ADA T000341.ADA T000343.ADA T000348.ADA T000349.ADA T000355.ADA T000361.ADA T000367.ADA T000350.ADA T000356.ADA T000351.ADA T000357.ADA T000352.ADA T000358.ADA T000354.ADA T000360.ADA T000366.ADA T00036F.ADA T00036L.ADA T000374.ADA T000364.ADA T000365.ADA T000362.ADA T000363.ADA T00036A.ADA T00036J.ADA T00036V.ADA T00036B.ADA T00036K.ADA T000369.ADA T000368.ADA T00036G.ADA T00036M.ADA T000375.ADA T00036H.ADA T000361.ADA T00036N.ADA T00036U.ADA T00036H.ADA T000376.ADA T000403.ADA T000377.ADA T000404.ADA T00036M.ADA T000390.ADA T000502.ADA T000512.ADA T000702.ADA T000378.ADA T000500.ADA T000391.ADA T000503.ADA T000402.ADA T000504.ADA T000507.ADA T000508.ADA T000509.ADA T000514.ADA T000513.ADA T000603.ADA T000703.ADA T000517.ADA T000518.ADA T000519.ADA T000604.ADA T000519.ADA T000607.ADA T000707.ADA T000714.ADA T000720.ADA T0D036C.ADA T000606.ADA T000706.ADA T000704.ADA T000605.ADA T000702.ADA T000708.ADA T000715.ADA T000721.ADA T00036S.ADA T0D036S.ADA T0D0371.ADA T0D0383.ADA T0D0528.ADA ALD9234.DEC CLD9234.DEC CLD9234.DEC CLD9234.DEC ELD9234.DEC ELD9234.DEC ELD9234.DEC ELD9234.DEC TLD9234.DEC T000710.ADA T000717.ADA T000709.ADA T000716.ADA T00P000.ADA T000705.ADA T000713.ADA T000719.ADA T0D0346.ADA T000711.ADA TODO344.ADA T000718.ADA TO00718.ADA TOD0345.ADA TOD036P.ADA TOD036Y.ADA TOD0380.ADA TOD0525.ADA ALD9204.DEC ALDE2C7.DEC CLD9204.DEC CLD9204.DEC TODO36E.ADA TODO36T.ADA TODO360.ADA TODO36Q.ADA TODO36Z.ADA TODO381.ADA TODO 36T. ADA
TODO 372. ADA
TODO 372. ADA
TODO 523. ADA
TODO 529. ADA
ALDEZC3. DEC
ALDEZC3. DEC
CLDE4C7. DEC
ELDE4C7. DEC
ELDE4C7. DEC
SLDE4C7. DEC
TLDE4C7. DEC TODD36R.ADA
TODD370.ADA
TODD382.ADA
TODD527.ADA
ALD9224.DEC
CLD9224.DEC
CLD9224.DEC
ELD9224.DEC
ELD9224.DEC
TLD9224.DEC
TFD9C04.DEC
TFD9C04.DEC
TFD9C04.DEC
TFD9C04.DEC
TFD9C04.DEC TODO36R.ADA TODO36X.ADA TODO373.ADA TODO524.ADA MATHFUN.DEC TOD0301.ADA TOD0526.ADA ALD9214.DEC ALDE2C8.DEC CLD9214.DEC CLDE2C8.DEC ALDE2C4.DEC ALDE4C8.DEC CLDE2C4.DEC CLDE4C8.DE CLDE2C7.DEC ELDEZCB.DEC ELDEZCB.DEC ELDEZCB.DEC SLDEZCB.DEC TLDEZCB.DEC TLDEZCB.DEC CGDOOST.DEC EL D9204. DEC EL DE2C7. DEC ELDE2C4.DEC ELDE4C..DEC SLDE2C4.DEC SLD9204.DEC SLDE2C7.DEC TLD9204.DEC SLDE4C8.DEC TLDE2C4.DEC TLDE4C4.DEC SGD0059.DEC EFD9C03.DEC TLDE4C8 . DEC TLDE2C7.DEC AGD0059.DEC AFD9C03.DEC CFD9C03.DEC TFD9C03.DEC OURTYPR.SPA SFD9C03.DEC AFD9C04.DEC OURSPC.SPA
OURSPS.TIM
AFD4128.USE
CFD451U.USE
EFDC107.USE
SFD451U.USE
TFD4803.USE
FG0P000.CMN SFD9C04.DEC OURTYP.SPA OURTYPR.TIM OURSYSR.SPA OURTYP.TIM AFD4803.USE CFDC107.USE ADASYS.USE AFDD608.USE EFD4128.USE AFDC107.USE CFD4128.USE OURSPC.USE SFDC107.USE CFDD608.USE EFD451U.USE EFDD608.USE SFD4803.USE TFDC107.USE FGD0000.CMN OURTYP.USE OURTYPR. USE SFD4128.USE SFDD608.USE TFD451U.USE FFDE000.CMN TFDD608.USE TFD4128.USE FADPODD.CMN FF0P000.CMN F000002.CMN SYSFOR.CMN FFC3514.FOR FF03606.FOR FA00000.FOR FF03519.FOR FF03608.FOR FF04133.FOR FFC3502.FOR FF03602.FOR OURFOR . CMN FOOPDOO.CMN FF03500.FDR FF03503.FOR FF03603.FOR FF03504.FOR FF03600.FOR FF03605.FOR FF04121.FOR FF03609.FDR FF03620.FOR FF04120.FOR FF04122.FOR FF04129.FOR FF04515.FOR FF04125.FOR FF04512.FOR FF04124.FOR FF04127.FOR FF04511.FOR FF04517.FOR FF04126.FOR FF04510.FDR FF04513.FOR FF04514.FOR FF04516.FOR FF04518.FOR FF0451B.FOR FF0451H.FOR FF0451Y.FOR FF0451C.FDR FF0451I.FOR FF0451Z.FOR FF0451E.FOR FF0451V.FOR FF04521.FOR FF04519.FOR FF0451F.FOR FF0451A.FOR FF0451G.FOR FF0451D.FUR FF0451J.FOR FF04520.FOR FF04532.FOR FF04538.FOR FF0451W.FOR FF0451X.FOR FF04529.FOR FF04535.FOR FF04531.FDR FF04537.FOR FF04522.FOR FF04530.FOR FF04533.FOR FF04534.FOR FF04536.FOR FF04539.FOR FF04551.FOR FF04557.FOR FF0453A.FOR FF04541.FOR FF04555.FOR FF04552.FOR FF04540.FOR FF04550.FOR FF04554.FOR FF04553.FOR FF04556.FOR FF04558.FDR F# 04560.FOR FF04601.FOR FF04563.FOR FF05201.FOR FF04559.FOR FF04600.FDR FF04562.FOR FF04601.FDR FF04602.FOR FF05200.FOR FF05202.FDR FF05203.FOR

Figure A-4. ACPS ANSI Tape Contents Volume ACPS04 (Concluded)

```
FF05208.FOR
                                                                             FF05209.FOR
FF05204.FOR
               FF05205.FOR
                              FF05206.FOR
                                              FF05207.FOR
                               FF05211.FOR
FF0520A.FOR
               FF05210.FOR
                                              FF05212.FOR
                                                              FF05213.FOR
                                                                             FF05214.FOR
               FF0521H.FOR
                               FF0521I.FOR
                                              FF0521J.FOR
                                                                             FF05300.FOR
FF05215.FOR
                                                              FF0521K.FOR
                                                              FF05305.FOR
               FF05302.FOR
                               FF05303.FOR
                                                                             FF05306.FOR
FF05301.FOR
                                              FF05304.FOR
FF05307.FOR
               FF05308.FOR
                               FF05400.FOR
                                              FF05401.FOR
                                                              FF05402.FOR
                                                                             FF05403.FOR
               FF05405.FOR FF05503.FOR
                                                                             FF05501.FOR FF05507.FOR
                               FF05406.FOR
FF05504.FOR
FF05404.FOR
                                              FF05407.FOR
                                                              FF05408.FOR
                                              FF05505.FOR
FF05502.FOR
                                                              FF05506.FOR
FF05508.FOR
FF0550E.FOR
               FF05509.FOR
                               FF0550A.FOR
                                                              FF0550C.FOR
                                              FF0550B.FOR
                                                                             FF0550D.FOR
                                                              FF06010.FOR FF06017.FOR
                               FF06001.FOR
                                              FF06009.FOR
                                                                             FF06011.FOR
               FF0550F.FOR
               FF06014.FOR FF06022.FOR
                               FF06015.FOR
                                              FF06016.FOR
                                                                             FF06018.FOR
FF06013.FOR
FF06019.FOR
FF06027.FOR
                                                              FF06025.FOR
                                                                             FF06026.FOR
                               FF06023.FOR
                                              FF06024.FOR
               FF06028.FOR
                               FF06029.FOR
                                              FF06030.FOR
                                                              FF06031.FOR
                                                                             FF06032.FOR
FF06033.FOR
               FF06043.FOR
                               FF06044.FOR
                                              FF06045.FOR
                                                              FF06046.FOR
                                                                             FF06047.FOR
FF06048.FOR
               FF06049.FOR
                                              FF06051.FOR
                                                              FF06052.FOR
                                                                             FF06053.FDR
                               FF06050.FDR
FF06060.FOR
               FF06061.FOR
FF06067.FOR
                               FF06062.FOR
                                              FF06063.FOR
                                                              FF06064.FOR
                                                                             FF06065.FOR
FF06066.FDR
                               FF06068.FDR
                                              FF06069.FDR
                                                              FF06070.FOR
                                                                             FF06071.FDR
FF06072.FOR FF06078.FOR
               FF06073.FOR FF06079.FOR
                                              FF06075.FOR
                                                              FF06076.FOR
FF06108.FOR
                               FF06074.FOR
                                                                             FF06077.FOR
                               FF06100.FOR
                                              FF06101.FOR
                                                                             FF06109.FDR
FF06110.FOR
               FF06111.FOR
                               FF06112.FOR
                                              FF06113.FOR
                                                              FF06114.FOR
                                                                             FF06115.FOR
FF06116.FOR FF06133.FOR
               FF06117.FOR FF06134.FOR
                               FF06118.FOR FF06135.FOR
                                                              FF06122.FOR FF06137.FOR
                                              FF06119.FOR
                                                                             FF06132.FOR
                                              FF06136.FOR
                                                                             FF06138.FOR
FF06139.FOR
               FF06140.FOR
                               FF06142.FOR
                                              FF06143.FOR
                                                              FF06144.FOR
                                                                             FF06145.FOR
                              FF06148.FOR
FF06155.FOR
FF06146.FOR FF06153.FOR
                                              FF06149.FOR
FF06156.FOR
                                                              FF06150.FOR
                                                                             FF06152.FOR
               FF06147.FOR
               FF06154.FDR
                                                              FF06157.FOR
                                                                             FF06158.FDR
FF06159.FOR
               FF06160.FOR
                               FF06162.FOR
                                              FF06163.FOR
                                                              FF06164.FDR
                                                                             FF06165.FOR
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Total of 1404 files.

Table A-5. ACPS ANSI Tape Contents Volume APCSOS

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FF06168.FOR FF06175.FOR
                                                  FF06169.FOR FF06176.FOR
FF06166.FOR
                 FF06167.FOR
                                                                  FF06170.FOR
                                                                                   FF06172.FOR
FF06173.FOR
                 FF06174.FDR
                                                                   FF06177.FOR
                                                                                   FF06178.FDR
                                                                                   FF06185.FOR
FF06179.FOR
                 FF06180.FOR
                                 FF06182.FDR
                                                  FF06183.FDR
                                                                   FF06184.FDR
FF06186.FOR
                 FF06187.FOR
                                 FF06188.FOR
                                                  FF06189.FOR
                                                                   FF06190.FOR
                                                                                    FF06802.FOR
FF06803.FDR
                                                  FF06816.FOR
                                                                                    FF06818.FOR
                 FF06806.FOR
                                 FF06807.FOR
                                                                   FF06817.FOR
                                                                   FF0D721.FOR
                                                                                   FF0D727.FOR
FF06819.FOR
                 FF06820.FOR
                                 FF06821.FOR
                                                  FF0D720.FOR
                                 FFD451L.FOR FFD451R.FOR
FF0D728.FOR FFD451P.FOR
                FFD451K.FOR
FFD451Q.FOR
                                                  FFD451M.FOR FFD451S.FOR
                                                                   FFD451N.FOR
                                                                                   FFD4510.FOR
                                                                                   FFD4524.FOR
                                                                   FFD4523.FOR
FFD4525.FOR
                                                                   FFD455F.FOR
                 FFD4526.FOR
                                 FFD455D.FOR
                                                  FFD455E.FOR
                                                                                   FFD455G.FOR
                                                 FFD455L.FOR
FFD4605.FOR
                FFD455J.FOR
FFD4603.FOR
                                 FFD455K.FOR
FFD4604.FOR
                                                                  FFD4567.FOR
FFD4606.FOR
FFD4551.FOR
                                                                                   FFD4568.FOR
FFD4569.FOR
                                                                                    FFD4607.FOR
                                                                                   FFD520D.FOR
FFD520J.FOR
                FFD4609.FOR
FFD520F.FOR
                                                                   FFD520C.FOR
FFD4608.FOR
                                 FFD460A.FDR
                                                  FFD460B.FDR
                                 FFD520G.FOR
FFD521A.FOR
                                                 FFD520H.FOR FFD521B.FOR
                                                                  FFD5201.FOR FFD521C.FOR
FFD520E.FOR
FFD5218.FDR
                 FFD5219.FOR
                                                                                   FFD521D.FOR
                FFD521F.FOR
FFDE202.FOR
FFD521E.FOR
                                 FFDD722.FOR
                                                  FFDD723.FOR
                                                                   FFDD724.FOR
                                                                                   FFDD725.FOR
                                                                  FFDD724.FOR
FFDE205.FOR
FFDE211.FOR
FFDE220.FOR
FFDE236.FOR
FFDE242.FOR
                                                                                   FFDE206.FOR FFDE212.FOR
FFDE201.FOR
                                 FFDE203.FOR
                                                  FFDE204.FOR
                                                 FFDE20A.FOR
FFDE216.FOR
FFDE235.FOR
FFDE207.FOR
                 FFDE208.FOR
                                 FFDE209.FOR
                                                                                   FFDE231.FOR
FFDE237.FOR
FFDE243.FOR
FFDE402.FOR
                FFDE214.FOR FFDE233.FOR
FFDE213.FOR
                                 FFDE215.FOR FFDE234.FOR
FFDE232.FOR FFDE238.FOR
                                 FFDE23A.FOR
                FFDE239.FOR
                                                  FFDE241.FOR
                FFDE245.FOR
                                 FFDE246.FOR
FFDE244.FOR
                                                                   FFDE401.FOR
                                                 FFDE250.FOR
FFDE403.FOR
                 FFDE404.FOR
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                                                                   FFDE407.FOR
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                                 FFDE411.FOR FFDE420.FOR
FFDE409.FOR
                FFDE40A.FOR
                                                  FFDE412.FOR
                                                                   FFDE413.FOR
                                                                                   FFDE414.FOR
FFDE415.FOR FFDE434.FOR
                FFDE416.FOR FFDE435.FOR
                                                 FFDE431.FOR FFDE437.FOR
                                                                   FFDE432.FOR
                                                                                   FFDE433.FOR
                                 FFDE436.FOR
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                                                                   FFDE438.FOR
                FFDE441.FOR
                                 FFDE442.FOR
                                                  FFDE443.FOR
                                                                                   FFDE445.FOR
FFDE43A.FOR
                                                                   FFDE444.FOR
                                 FFDF000.FOR FFDF001.FOR FFDF0001.FOR
                                                                   FFDF002.FOR
                                                                                   FFDF003.FOR FGD000E.FOR
FFDE446.FOR
                FFDE450.FOR
                                 FFIRST FOR
FFDF004.FOR
                 FFDF005.FOR
                                                                   FGD000D.FOR
F000102.FOR
                F000103.FOR
                                 F000104.FOR
                                                  F000202.FOR
                                                                   F000203.FOR
                                                                                   F000204.FOR
                                                 F000311.FOR
F000317.FOR
                                                                  F000312.FOR F000318.FOR
                                                                                   F000313.FOR
F000319.FOR
F000300.FDR
                F000305.FOR
                                 F000310.FOR
                F000315.FOR
F000321.FOR
F000327.FOR
                                 F000316.FOR
F000314.FOR
F000320.FOR
                                 F000322.FOR
                                                  F000323.FOR
                                                                                   F000325.FOR
                                                                   F000324.FOR
                                 F000328.FOR
                                                                                    F000331.FOR
F000326.FOR
                                                  F000329.FOR
                                                                   F000330.FOR
                F000333.FOR F000339.FOR
                                 F000334.FOR
                                                                   F000336.FOR
                                                                                   F000337.FOR F000343.FOR
F000332.FOR
                                                  F000335.FOR
F000338.FOR
                                 F000340.FOR
                                                  F000341.FOR
                                                                   F000342.FOR
F000347.FOR
                F000348.FOR
                                 F000349.FOR
                                                  F000350.FOR
                                                                   F000351.FOR
                                                                                   F000352.FOR
                                 F000355.FDR
                                                 F000356.F0R
F000362.F0R
                                                                   F000357.FDR
F000353.FOR
                F000354.FDR
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Table A-5. ACPS ANSI Tape Contents Volume APCSOS (Continued)

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Table A-5. ACPS ANSI Tape Contents Volume APCSOS (Continued)

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JOV JG0000C.J0V JGD0001.JOV JGDOODE.JOV JGNOOOI.JOV JGNOODK.JOV J000103.J0V J000305.J0V J000315.J0V J000104.J0V J000202.J0V J000204.J0V VOL.002000L J000313.J0V J000325.J0V J000331.J0V J000337.J0V J000343.J0V J000352.J0V VOL. [[2000L J000323.JOV VOL. 925000L J000310.J0V J000314.J0V J000316.J0V J000328.J0V J000324.J0V J000330.J0V VOL. 9220601 J000327.J0V J000333.J0V VOL. 422000L VOL. 042000L VOL. 942000L VOL. 822000L J000335.JOV J000336.J0V J000339.J0V J000341.J0V J000350.J0V J000342.J0V J000351.J0V J000347.J0V J000353.J0V J000348.J0V J000363.J0V J000364.J0V J00036M.J0V J000391.J0V J000365.J0V J00036N.J0V J000402.J0V VOL. L62000 J00036V.JOV VOL. 404000L J000361.J0V J00036K.JDV J00036L.J0V J00036U.J0V J00036U.J0V J000403.J0V J000507.J0V J000605.J0V VOL. 0620001 J000502. JOV J000512. JOV J00036H.J0V J000500.J0V VOL. E020001 J000504.JDV J000508.J0V J000509.J0V VOL. 812000L VOL. 808000L J000514.J0V J000604.J0V J000519.J0V J000607.J0V J000602.J0V J000702.J0V J000704.J0V J000710.J0V J000717.J0V J000345.J0V J000706.J0V J000713.J0V J000719.J0V J000705.JDV J000711.JDV J000718.JDV J000707.JDV J000714.JOV J000720.JOV J000703.J0V J000709.J0V J000708.J0V J000715.J0V J000721.J0V J000716.JOV J0D0346.J0V J0D036T.J0V J0D0525.J0V VOL. 0950001 VOL. 272VOL VOL. 272VOL VGL. 492000L VOL. VOLD92 SPCJOV. JOV J0D0369.J0V J0D0362.J0V JF03701.USE JUD0344.JOV JOD036R.JOV JOD0523.JOV J0D0365.J0V J0D0524.J0V JF0451H.USE JF0451I.USE JF04311.USE JF0451J.USE JF0619A.USE JF06822.USE JFD451U.USE JFD455K.USE JFD4510.USE JFD4528.USE JFD451N.USE JFD4526.USE JFD451R.USE JFD455F.USE JFD451S.USE JFD455G.USE JFD4525.USE JFD455L.USE JFD460A.USE JFD4568.USE JFD4569.USE JFD4608.USE JFD4609.USE JFD460B.USE JFD460C.USE JFD521C.USE JFD520G.USE JFD521E.USE JFD460D.USE JFD520H.USE JFD5201.USE JFD520J.USE JFD521D.USE JFD521F.USE JFD6260.USE JFD6261.USE

Table A-5. ACPS ANSI Tape Contents Volume APCSOS (Concluded)

```
JFD6262.USE
                    JFD6263.USE
                                        JFD6264.USE
                                                             JFD6265.USE
                                                                                  JFD6266.USE
                                                                                                       JFD6267.USE
                                                                                                      JFD6273.USE
JFD6279.USE
JFDD725.USE
JFD6268.USE
JFD6274.USE
                    JFD6269.USE
JFD6275.USE
                                                             JFD6271.USE
JFD6277.USE
                                                                                  JFD6272.USE
JFD6278.USE
                                         JFD6270.USE
                                         JFD6276.USE
JFDD602.USE
JFJ451H.USE
                     JFDD603.USE
                                         JFDD610.USE
                                                             JFDD611.USE
                                                                                  JFDD724.USE
                    JFJ4511.USE
JFJ6261.USE
                                                                                  JFJ451R.USE
                                         JFJ451N.USE
                                                             JFJ4510.USE
                                                                                                       JFJ451S.USE
                                         JFJ6262.USE
JFJ6268.USE
JFJ6275.USE
J000317.USE
                                                                                  JFJ6264.USE
JFJ6271.USE
                                                                                                       JFJ6265.USE
JFJ6272.USE
JFJ6260.USE
                                                              JFJ6263.USE
                    JFJ6267.USE
JFJ6274.USE
JGN000J.USE
JFJ6266.USE
                                                             JFJ6270.USE
JFJ6273.USE
JGD0008.USE
                                                             JFJ6276.USE
J000318.USE
                                                                                  JFJ6277.USE
J000319.USE
                                                                                                       JFJ6278.USE
J000320.USE
                                                             JOJO318.USE
JGF000E.FOR
CEXECA.CMN
                                                                                                      JOJ0321.USE
TMPDMP.FOR
CCOMP.FOR
J000321.USE
                     J000322.USE
                                         J0J0317.USE
                                                                                  J0J0320.USE
JOVTYP.USE
JOVMATH.DAT
                                         JGF0001.FOR
CCOMPV.CMN
                     TYPJOV.USE
                                                                                  SYSJOV.FOR
                    CCOMPA.CMN
                                                                                  CEXECV.CMN
CEXEC. FOR
```

Total of 1327 files.

APPENDIX B

DEC VAX/VMS BACKUP TAPE FORMAT

This appendix describes the delivery tape format and directory file organization for the DEC VAX/VMS version of the ACPS.

One tape is written in DEC VAX/VMS BACKUP format as volume ACPS, save set ACPS.BCK. Refer to the DEC VAX/VMS Backup Utility Reference Manual for details on BACKUP formatted tapes. The tape is structured as a multi-file, multi-directory, single-volume configuration. The different files represent collections of ACPS test programs and command procedures. Each collection of similar files is grouped together in specific directories on the tape. The organization of the files on this tape according to directory is as follows:

[acps]	Top-level ACPS directory containing command
	procedures to establish a common language test environment and to display the VAX/VMS software
	· · · · · · · · · · · · · · · · · · ·
	environment.

[acps.results]	Contains output files from ACPS compilations and
	test executions and from ACPS test comparison tool
	executions.

[acps.support]	Contains	common	language	test	support	software	and
	command	procedui	res.				

[acps.tools]	Contains	ACPS	test	comparison	tool	program	source
	and comma	nd pr	ncedi	res files.			

[acps.ada]	Top-level	directory	for Ada	tests.

[acps.ada.dec]	Contains Ada	test files and command p	rocedures for
	use with the	DEC VAX Ada compiler.	

[acps.ada.dec.lib],	Reserved for program library files generated by VAX
[acps.ada.dec.lib.sub]	Ada compilations of Ada tests.

[acps.fortran]	Contains FORTRAN test files and command procedures
	for use with the DEC VAX FORTRAN compiler.

[acps.jovial]	Contains JOVIAL test files and command procedures
	for use with the ECSPO JOVIAL compiler hosted and
	targeted to VAX/VMS.

[acps.jovial.com.user]	Contains a command procedure to define logical names
	and global symbols for execution of the ECSPO JOVIAL
	compiler as described in Appendix A of the EMAD ITS
	JOVIAL J73 Compiler User's Guide.

APPENDIX C

VAX/VMS SAMPLE COMMAND PROCEDURES

This appendix describes use of a set of VAX/VMS 4.X command procedures that are provided on the ACPS BACKUP formatted delivery tape to perform the tasks necessary to compile/execute ACPS tests and to use the ACPS test comparison tools. Listings are provided for each command procedure discussed. The test compilation and execution command procedures shown are for DEC VAX Ada and were used to generate the output examples discussed in Appendix E. Table C-1 lists the file names (using ACPS logical name conventions) and purpose of all VAX/VMS command procedures provided with the ACPS.

This appendix assumes familiarity with the VAX/VMS command language (DCL). The information presented should be useful to those desiring to either rehost the ACPS or to use it for an Ada compiler other than DEC VAX Ada.

C.1 INSTALLATION OF ACPS SOURCE AND COMMAND FILES

For VAX/VMS users, the ACPS delivery tape is written in BACKUP utility format and contains the single save set ACPS.BCK.

To install the tape the user should type the following:

\$MOUNT/FOREIGN MTAO:

\$BACKUP/LOG MTAO:ACPS.BCK MYDISK:[MYDIRECTORY...]*

where:

MTAO is the tape drive on which the ACPS tape is mounted. MYDISK is a user disk. MYDIRECTORY is a VMS directory to contain the ACPS.

The directory [MYDIRECTORY.ACPS] will be created as the top-level ACPS directory. The following global symbol definition must be placed in the user's LOGIN.COM file:

\$acps:==@MYDISK:[MYDIRECTORY.ACPS]LOGICALS MYDISK MYDIRECTORY

All ACPS batch command procedures use the symbol ACPS to establish an initial test environment state common to all ACPS test languages. Its use causes invocation of the ACPS command procedure LOGICALS.COM which defines all ACPS logical names and test environment global symbols, and sets the default directory to the top-level ACPS directory. Table C-2 contains a listing of LOGICALS.COM. Subsequent sections in this appendix will refer to the logical names defined in this command procedure.

C.2 INSTALLATION OF COMMON LANGUAGE SUPPORT SOFTWARE

A separate directory in ACPS is reserved for common language test support software which is used to gather VMS run-time performance statistics and to access microsecond level time. To install this software the user should type the following:

- \$ ACPS
- \$ SET DEF DSUP
- \$ @SUPPORT

Table C-3 contains a listing of DSUP:SUPPORT.COM.

To execute ACPS microsecond level tests, the MACRO routine contained in file DSUP:USSDISP.MAR must be installed as a user written system service in the VMS directory SYS\$SHARE as file USS.OLB. A template for developing user written system services is contained in file USSDISP.MAR in the VMS directory SYS\$EXAMPLES. If the user is unable to create the necessary system service, then the following must be done in order to execute any of the ACPS tests:

- a. Remove the call to USER_GET_ICR in file DSUP:GETICR.MAR and reexecute DSUP:SUPPORT.
- b. Remove references to SYS\$SHARE:USS.OLB in the following command procedures: DDEC:SETUP.COM, DFOR:SETUP.COM and DJOV:SETUP.COM.

C.3 INSTALLATION OF ACPS TEST COMPARISON TOOLS

To install the ACPS test comparison tools, the following should be typed:

- \$ ACPS
- \$ SET DEF DTOOL
- \$ @TOOLS

Table C-4 contains a listing of DTOOL: TOOLS.COM.

C.4 DETERMINATION OF VAX/VMS SOFTWARE ENVIRONMENT

In order to draw conclusions about the results of execution of ACPS tests for a given compiler, one must know the VAX/VMS software environment under which the tests are executed. Table C-5 shows a listing of the command procedure DACPS:VAXVMS which is used to display all relevant information about the VMS software environment.

C.5 DETERMINATION OF ADA COMPILER-DEPENDENT PARAMETERS

The Ada run-time command procedures and Ada tests supplied with the ACPS are dependent upon several compiler-specific parameters. The values chosen for these parameters are specific to the DEC VAX Ada compiler. The program that displays these parameters is contained in file DDEC:ADAPARM.ADA and is executed by the command procedure DDEC:ADAPARM.COM which is shown in Table C-6. Table C-7 shows the output from ADAPARM for DEC VAX Ada. The Ada test support packages OURSYS.ADA, ADASYS.ADA, OURTYP.ADA, OURSYSR.ADA and OURTYPR.ADA make the following assumptions:

a. The resolution of the Ada clock (i.e., the Ada clock cycle or smallest nonzero difference in Ada clock values) is not worse than 10 ms.

In order to minimize test execution times, it is desirable to keep the clock granularity as low as possible. If it is greater than 10 ms, then the variable TCLOCK in package ADASYS.ADA should be initialized to the value "OS".

b. Run-time statistics are written to the standard output file in Ada which is assumed to be SYS\$OUTPUT.

If this assumption is invalid, then either the approach used in recording run statistics within the ACPS Ada command procedures provided must be changed or all PUT and NEW_LINE statements in the packages ADASYS.ADA and ADADMP.ADA must be changed to output to file SYS\$OUTPUT.

c. ACPS numeric data types defined in packages OURSYS.ADA, OURSYSR.ADA, OURTYP.ADA, and OURTYPR.ADA are mapped to VAX data types as follows:

ACPS Type	VAX Ada Type	VAX Type-Size
OUR_INTEGER	INTEGER	Longword-32 bits
OUR_FLOAT	FLOAT	F_Float-32 bits
OUR_POSITIVE	POSITIVE	Longword-32 bits
OUR_SHORT_INTEGER	SHORT INTEGER	Word-16 bits
OUR_SHORT_SHORT_INTEGER	SHORT_SHORT_INTEGER	Byte-8 bits
OUR_LONG_FLOAT	LONG-FLOAT	G_float-64 bits
OUR_LONG_LONG_FLOAT	LONG_LONG_FLOAT	H_float-128 bits
OUR_D_FLOAT	D_FLOAT	D_float-64 bits

If the Ada compiler mapping between predefined ADA numeric types and VAX data types is not as shown in the above table, then the corresponding ACPS type statements in packages OURSYS.ADA, OURSYSR.ADA, OURTYP.ADA, and OURTYPR.ADA must be modified to ensure the correct VAX data type representation for each ACPS numeric type.

d. The minimum time used in a DELAY statement to force invocation of a lower priority task is assumed to be ten milliseconds. This value establishes the minimum time that will be used in DELAY statements by ACPS tests. Its value is contained in the named constant minimum delay interval defined in package OURSYS.

C.6 ACPS COMMAND PROCEDURE TECHNIQUES

This section discusses command procedure techniques common to all ACPS test languages and compilers. The discussion refers to the command procedure shown in Table C-6 which compiles and executes the Ada program ADAPARM using DEC VAX Ada compiler.

- a. Creation of compiler-specific test environments. ACPS compilation and execution command procedures are assumed to be executed in batch mode. To create an initial compiler-independent test environment, the first command (shown on line 46 of Fig. C-6) uses the symbol "ACPS" to invoke the command procedure DACPS:LOGICALS.COM which does the following:
 - 1. It defines logical names for each ACPS directory.
 - 2. It defines global symbols (e.g., USE_DEC) which are used to establish compiler-specific test environments.
 - 3. It sets the batch output buffer update interval to one day to ensure that VMS batch output buffer flushes do not impact test measurements.
 - 4. It sets the default directory to DACPS.

To create a compiler-specific test environment, the next command (shown on line 47 of Table C-17) uses the symbol USE_DEC to invoke the command procedure DDEC:SETUP.COM which completes establishment of the test environment for DEC VAX Ada compiler. As shown in Table C-8. DDEC:SETUP.COM does the following:

- 1. It defines global symbols used by all ACPS compilation and execution command procedures by executing the procedure DSUP:SYMBOLS.COM shown in Table C-9.
- 2. It defines symbols which are used in ACPS compilation command procedures to specify compiler options and common language test support software object modules.
- 3. It sets the current directory to the one containing the command procedures and test cases for a specific compiler.

- b. Creation of compile-time test environment. A common language test environment is created to begin each ACPS compile-time test. All extraneous files are deleted (as shown in lines 38-42 of Table C-6). The working set parameters are set to the specific values shown in line 59 of Table C-6 and are also displayed in the compile-time test statistic file. The system activity before and after the test is also displayed to verify that the compilations are made in a standalone environment and are not impacted by other VMS processes.
- c. Creation of run-time test environment. A common language test environment is created for each ACPS run-time test. The working set parameters are set to the specific values shown in line 57 of Table C-6 and are also output to the run-time statistic file. The parameters as shown are used for all single task tests to ensure that VAX automatic working set adjustment logic does not affect test measurement repeatability by interrupting test executions. The system activity before and after the tests is displayed to ensure that test measurements are not affected by other VMS processes or system users.
- d. Recording of run-time test statistics. All ACPS run-time command procedures assume that run-time statistics from test executions are written to the file with logical name SYS\$OUTPUT.

To ensure that an output operation from one test execution does not impact (due to output completion or file extension) another test, a separate command procedure is used to execute each test and to append the results to a single permanent file. As shown in lines 68 and 69 of Table C-6, the logical name RESULTS is assigned to the permanent file that will contain the performance statistics from all test executions. The symbol OUR_RUN (defined by DSUP:SYMBOLS) is used to invoke the command procedure DSUP:RUN which executes a test and appends the results to the file with logical name RESULTS.

Table C-10 contains a listing of DSUP:RUN.COM. As shown at line 32 of Table C-10, DSUP:RUN uses the command procedure DSUP:EXEC, shown in Table C-11, to execute the test program and directs the output to a temporary file. It then uses the APPEND command to append the temporary file to the file RESULTS and finally deletes the temporary file.

To ensure that completion of output from a DCL SHOW command does not impact a test execution, a separate command procedure, DSUP:SHOW, is used to execute each show command and append the output to the file with logical name RESULTS. Table C-12 contains a listing of DSUP:SHOW.COM. As shown at line 26, DSUP:SHOW uses the command procedure SHOW_, shown in Table C-13, to execute the SHOW command and directs the output to a temporary file. The APPEND command is then used to add the temporary file to the end of the file RESULTS. The temporary file is then deleted.

C.7 DETERMINATION OF TEST LOOP OVERHEAD PARAMETERS

The ACPS test comparison tool is used to account for test loop overhead in ACPS tests. For host machines that do not support execution of the tool (i.e., host computers not supporting FORTRAN 77), a special test program in each ACPS test language is used to compute the test overhead. These overhead measurements can then be used to set variables in the test support software so that test loop overhead (except for operating system statistics) can be accounted for directly in each test execution. Table C-14 shows the command procedure which executes the program AFIRST which is the Ada version of the overhead test. Table C-15 contains output from execution of AFIRST. The output contains 20 executions (ADAFRST) of nonmicrosecond level tests and 10 executions of microsecond level tests(TOVR). The format of the output is described in Appendix E. Based on data from Table C-15, the following initial values would be given to variables in DDEC:ADASYS.ADA:

- a. For microsecond level tests, the test loop overhead time is contained in variable TOVR. It would be initialized to 213.
- b. For nonmicrosecond level tests:
 - 1. LOOPN contains the number of test loop iterations. It would be set to 99998.
 - LOOPTM contains the measured elapsed time for LOOPN iterations through the test loop. It is set to the median of values measured which would be 3.299988.
 - 3. LOOPZ contains the size in bytes of the test loop compiled code. The preset value for DEC VAX Ada is 0 since the compiler does not support the address attribute for labels.

C.8 DETERMINATION OF TEST REPEATABILITY

As a result of the coding and command procedure conventions adopted in the VAX/VMS ACPS, the elapsed time and CPU time measurements made at run-time can be made accurate to within ± 10 ms. To achieve a test measurement accuracy of 99%, one needs only to ensure that each test (exclusive of test overhead) executes for at least 1 sec.

The special command procedure DDEC:REPEAT, shown in Table C-16, is used in the ACPS to verify measurement accuracy by repeatedly executing the test loop overhead program AFIRST so that 1000 test measurements are made. The run-time test statistic file is then manually inspected to determine the variance in test measurements. If the minimum and maximum measurements differ by more than 20 ms, then to achieve a test measurement accuracy of 99%, the ACPS test durations must be increased accordingly [e.g., for a 40 ms variance, tests must be executed (exclusive of test loop overhead) for at least 3 sec].

Typically, these large test measurement variances are caused by scheduled events within VMS (e.g., VAX cluster and DECNET polling activities or periodic processing by the system process ERRFMT). They can be eliminated by restriction of the VMS software environment. Table C-15 shows an example of a test measurement (3.349976) which was impacted by VMS batch processing logic that flushes batch output buffers at 1 min intervals even if they are empty. ACPS command procedures were subsequently modified to set this interval to one day.

For VAX computers with either large memory configurations (greater than 16 Mbytes) or which have memory modules that have different access times, test measurements cannot be made to be repeatable through varying test durations. Test measurement variances greater than 30% have been obtained in such configurations. These variances are due to the effect of instruction pipelining in which multiple memory accesses may be made simultaneously. The efficiency of memory access for these configurations is dependent upon where programs are located in physical memory. Since the user has no control over how his or her program is loaded into physical memory, any tests run in these configurations are not repeatable and the user must measure the variance of execution time for all tests executed as discussed in Section C.10.

C.9 COMPILATION AND EXECUTION OF ACPS TESTS

Several command procedures are used to compile and execute ACPS tests. As shown in Table C-1, for each common language test (not including type C, E, S, or T tests) functionally equivalent command procedures of similar form are used for each ACPS test language. The batch procedure to compile and execute tests for DEC VAX Ada compiler is shown in Table C-17. It invokes two command procedures: DDEC:ACOMP to compile ACPS tests and DDEC:AEXEC to execute ACPS tests. Compile-time statistics are written to the file DRESULT:ACOMP.DAT and run-time statistics are written to the file DRESULT:AEXEC.DAT.

Table C-18 shows a shortened version of the command procedure DDEC:ACOMP which was used to compile selected ACPS VAX Ada tests for demonstration of ACPS compile-time output which is described in Appendix E. The command procedure is divided into five sections: compilation of tests (lines 44-83), creation of executable modules (lines 86-92), determination of source file size (lines 96-114), determination of object module size (lines 117-134), and determination of executable module size (lines 137-144). The command procedure generates start and end records (e.g., lines 44 and 86) on the output statistic file for use by the ACPS comparison tool to identify where each of these test output sections begins and ends. The symbol < is used to indicate the start of a test record or test section. ACOMP uses the command procedure DDEC: ACOM to compile and generate test output records for single compilation units. As shown in Table C-19, ACOM first uses the symbol PMSG to write a test identification record and then uses the DCL SHOW STATUS command (invoked by symbol SHW defined by DSUP:SYMBOLS) to measure system resource use before and after the compilation. ACOMP uses the command procedure DDEC:ALNK, shown in Table C-20, to form executable modules for single Ada programs and to generate test records showing the resources consumed. ALNK generates test identification and performance statistic records in the same way as ACOM does. ACOMP uses the following command procedures to calculate and display

the size of VAX Ada test files: DDEC:ASRC, shown in Table C-21, for source files; DDEC:AOBJ, shown in Table C-22, for object files; and DDEC:AEXE, shown in Table C-23, for executable files. These command procedures set global symbols (source_size, object_size, executable_size) that are used by ACOMP for output of the total size of each type of Ada file.

Table C-24 shows a shortened version of the command procedure DDEC:AEXEC which was used to execute selected ACPS tests compiled by VAX Ada for demonstration of ACPS run-time statistic output which is described in Appendix E. The DCL SHOW STATUS command is used to measure the execution and program loading time of the test loop overhead test (aa00000) and of the entire test suite.

The ACPS test comparison tool assumes that test records within compiletime and run-time test statistic files appear in a specific sorted order which is described in Appendix E Section E.3. All test compilation and execution command procedures provided with the VAX/VMS version of the ACPS comply with this ordering.

C.10 EXECUTION OF ACPS TEST RESULT COMPARISON TOOL

The ACPS test result comparison tool consists of two separate programs: one to compare compile-time test results and one to compare run-time execution results.

The command procedures DTOOL:CCOMP is used to interactively execute the ACPS compile-time test result comparator. Table C-25 contains a listing of DTOOL:CCOMP which describes how to invoke the command procedure, the logical names created, and the filename and filetype conventions used. To compare compile-time test results generated through execution of ACPS command procedures provided for ECSPO JOVIAL and VAX Ada, one would type the following:

\$ @DTOOL:CCOMP DRESULT:ACOMP DRESULT:JCOMP DRESULT:COMPILE A J

The comparator tool prompts the user for information to control the comparison. This input is described in Appendix E. At the end of execution the following files would be created:

- DRESULT:COMPILE_A_J.U09 Output comparing VAX Ada and ECSPO JOVIAL compile-time test statistic files.
- DRESULT: COMPILE_A_J.U10 Formatted output for VAX Ada compile-time test statistic input file.
- DRESULT: COMPILE_A_J.Ull Formatted output for ESPO JOVIAL compile-time test statistic input file.

The command procedure DTOOL:CEXEC is used to interactively execute the ACPS run-time test result comparator. The comparator tool prompts the user for information to control processing. This input is described in Appendix E. The listing for DTOOL:CEXEC is contained in Table C-26. It describes how the command procedure is invoked, which logical names it uses, and the filename and filetype conventions employed. To compare run-time test results from execution of ACPS command procedures for ECSPO JOVIAL and VAX Ada, one would enter the following command:

\$ @DTOOL:CEXEC DRESULT:AEXEC DRESULT:JEXEC DRESULT:RUN_A_J

At the end of execution, CEXEC would generate the following files:

DRESULT:RUN_A_J.U09 - Output comparing VAX Ada and ECSPO JOVIAL run-time test statistic files.

DRESULT:RUN_A_J.U10 - Formatted output for VAX Ada run-time test statistic input file.

DRESULT:RUN_A_J.Ull - Formatted output for ECSPO JOVIAL run-time test statistic input file.

To measure test repeatability, the execution comparator tool can be used to calculate the maximum and minimum execution statistics for each test. The tool can optionally compare results of successive executions of ACPS test execution command procedures and generate maximum or minimum test statistic files (see lines 42-45 in Table C-26). These test statistic files can be continually updated by comparison with subsequent test executions until the maximum and minimum statistic values for every test do not change. The resultant maximum or minimum test statistic files could then be used for comparison to corresponding maximum or minimum test result files for other test types.

Table C-1. ACPS VAX/VMS Command Procedures

FILE ONES

Description	YAX Ada	ECSPO JOVIAL	YAX FORTRAN
Display VAX/VMS Software Environment	DACPS: VAXVIS	•	•
Define Logical Names and Environment Symbols	BACPS:LOGICALS	•	•
Install Common Language Support Software	DSUP:SUPPORT	•	•
Install ACPS Test Comparison Tools	8700L:700LS	•	•
Setup Language Test Environment	BOEC:SETUP	DJOY:SETUP	DFOR: SETUP
Define Common Language Command Symbols	DSUP:SYMBOLS	•	•
Execute Program and Record Test Results	DSUP: RUN	•	•
Execute Program	DSUP: EXEC	•	•
Execute Show Command and Record Results	BSUP:SHOW .	•	•
Execute Show Command	BSUP:SHOW_	•	•
Display Ada Compiler Dependent Parameters	BDEC:ADAPANA		
Compile/Execute Test Loop Overhead Test			
- common language tests	BOEC:AFIRST	BJOY:FIRST	BFOR: FF1RST
- Ada type C tests	BOEC:CF1RST		
- Ada type E tests	BDEC: EF1RST		
- Ada type 5 tests	BDEC:SFIRST		
- Ada type T tests	BOEC:TFIRST		
Determine Run Time Measurement Repeatability	BOEC:REPEAT		
Compile/Execute ACPS tests			
- common language tests	DDEC:ABATCH	BJOY: JEATCH	SFOR: FBATCH
- Ada type C tests	BDEC:CBATCH		
- Ada type E tests	BOEC:EBATCH		
- Ade type 5 tests	BOEC:SBATCH		
- Ada type T tests	SOEC:TBATCH		
Compile ACPS tests			
- common language tests	BDEC:ACOPP	BJOY:JCOMP	BFOR:FCOMP
- Ada type C tests	SDEC:CCOPP		
- Ada type E tests	BOEC:ECOMP		
- Ade type 5 tests	BOEC:SCOPP		
- Ada type T tests	SOEC:TOOP		
Compile Individual ACPS Files	BDEC:ACOM	BJOY:JCOM	BFOR:FCOM
Link ACPS Programs	BOEC:ALM	BJOV:JUK	SFOR:FLMK
Determine Size of ACPS Source Files	BOEC:ASRC	BJOV:JSRC	BFDR:FSRC
Determine Size of ACPS Object Files	COOK: 3308	DJ0Y:J0BJ	BFOR:FOBJ
Determine Size of ACPS Executable files Execute ACPS Tests	BOEC:AEXE	BJOV: JEXE	SFOR:FEXE
- common language tests	BDEC:AEXEC	BJOV: JEXEC	OFGR. FEXEC
- Ada type C tests	BOEC:CEXEC		
- Ade type E tests	DDEC: EEXEC		
- Ada type S tests	BOEC: SEXEC		
- Ada type 1 tests	BOEC:TEXEC		
Execute ACPS Compilation Comparator	STOOL:CCOPP	•	•
Execute ACPS Test Execution Comparator	STOOL: CEXEC	•	•

^{* -} common for all languages

Table C-2. Command Procedure DACPS:LOGICALS.COM

```
$! Ada Real Time/Run Time Environment Test
                                                                                           Aerospace Corporation #!
  23
                 Test:
                                  LOGICALS.COM
                                                                                                                                 $!
$!
 4567
          $!
                 File:
          $!
                         REK
                                   2/1/88
 89
                Description:
          $!
          †! This command procedure is used to define logical names for 
‡! ACPS Ada/FORTRAN/JOVIAL test directories and is invoked as follows:
10
11
12
13
14
15
16
17
          $!
          $!
                    Blogicals pl p2
          $!
                           where:
          $!
          $!
                                       pl
                                                  is the device containing the ACPS test suite
18
19
                                                     (e.g. sys$disk)
                                                    is the name of the ACPS test suite top level directory (e.g. user.acps)
212245678901234567890
          $! At the end of execution the default directory is set to the top
$! level directory of the ACPS test suite and the batch output
          $! rate is set to 1 day.
          #! assign logical directory names
          $!
          $ assign 'pl':['p2']
$ assign 'pl':['p2'.ada]
$ assign 'pl':['p2'.fortran]
                                                                    dacps
                                                                    da da
                                                                    dfor
         # assign 'pl':['p2'.fortran] dfor
# assign 'pl':['p2'.jovial] djov
# assign 'pl':['p2'.tools] dtool
# assign 'pl':['p2'.support] dsup
# assign 'pl':['p2'.data] data
# assign 'pl':['p2'.ada.telesoft] dtele
# assign 'pl':['p2'.ada.dec] ddec
# assign 'pl':['p2'.ada.als] dals
# assign 'pl':['p2'.ada.als] dals
          * assign 'pl':['p2'.results]
                                                                   dresult
41
42
43
44
45
          #! define symbols to set up compiler specific test environments
          46
47
          $ use_jxovial :== adjov:setup.com
$ use_txelesoft :== adtele:setup.com
48
49
50
          #! set default directory to top level acps directory and set batch #! output rate to 1 day
51
52
53
54
          $ set def dacps
          $ set output_rate=1-0:0:0
```

Table C-3 Command Procedure DSUP:SUPPORT.COM

1		Ada Real Time/Run Time Environment Test Aerospace Corporation
2 3 4 5 6 7 8 9 10	\$! \$!	Test: File: SUPPORT.COM
6	\$!	REK 2/1/88
8	*!	Description:
10 11 12 13	\$! \$! \$!	XXXX compile/assemble Ada/FORTRAN/JOVIAL test support software XXXX create object module library file SUPPORT.OLB to contain the XXXX test support software object modules.
14 15	\$! \$!	assumed logical names:
16 17	\$!	dsup - directory containing test support software
18 19 20 21	*	for/check=bounds gettim for/check=bounds getats macro geticr
22 23	\$!	library/object/create support.olb gettim,gstats,geticr

Table C-4 Command Procedure DTOOL:TOOLS.COM

```
123456789012345678901234
1112111111222234
        ‡! Ada Real Time/Run Time Environment Test
                                                                          Aerospace Corporation
             Test:
                           TOOLS.COM
             File:
        $!
$!
$!
                           2/1/88
                    REK
             Description:
        $! XXXX compile/link Ada/FORTRAN/JOVIAL compilation, execution result
$! XXXX comparison tools
$! XXXX The current directory is changed to dtool and left there on exit
        $!
                      assumed logical names:
        $!
                                 $ set def dtool
$ for/check=bour
$ for/check=bour
            for/check=bounds ccomp
            for/check=bounds cexec
            link ccomp
link cexec
        *!
```

Table C-5 Command Procedure DACPS: VAXVMS.COM

```
1234567
         *! Ada Real Time/Run Time Environment Test
                                                                            Aerospace Corporation $!
         *!
              Test:
                            VÁXVMS.COM
         $!
              File:
                     REK
                              2/1/88
 89
             Description:
         $!
1011234
11234
112314
112212234
122222222333334
         †! This command procedure displays VAX/VMS system and process parameters †! which define the software environment under which ACPS tests are compiled and executed.
         †! The working set parameters are set and displayed separately by each #! ACPS compilation and execution command procedure.
         $! display system processes
$!
         $ show system $!
         $! display process/quotas
         $!
        $ show process/quotas
$!
        display RMS multi-block and multi-buffer defaults for FORTRAN I/O
        $!
$ show rms_default
         $! display system parameters
        ‡ run sys‡system:sysgen
        show/all
        Show/special
        exit
```

Table C-6 Command Procedure DDEC: ADAPARM.COM

```
#! Ada Real Time/Run Time Environment Test
                                                            Aerospace Corporation
 123456789
           Test:
                      ADAPARM. COM
           File:
       $!
                 REK
                       2/1/88
           Description:
       $!
10
       #! **** batch procedure to compile/link/execute Ada ACPS test ADAPARM
11
       $! ** output will be written to data set dresult:adaparm.dat
12
13
!! assumptions:
              assumed logical names:
       $!
$!
                      dacps - top level directory of ACPS test suite $! dresult - directory that contains ACPS test result output!
       $!
                          dsup - directory containing common language support
                                 software and command procedures
       $!
       $!
              assumed symbol values:
                       acps
                                    - executes command procedure dacps:logicals
                                      to define logical names, global symbols and $!
       $!
                                      set the default directory to dacps:
                       aopt
                                    - Ada compiler execution options
       $!
                                    - list of object modules common to all tests $
                       asys
       $!
                       our_run
                                    - invokes dsup:run.com which executes the
                                      program in the parameter field and appends $
       $!
                                      the test results to the file with logical
32
33
34
35
36
       $!
                                      name results.
                       use_dec
                                    - invokes a command procedure that defines
                                      global symbols used to compile and execute $! test programs and sets the current $!
       $!
                                      directory to the one containing the Ada ACPS test programs
       $!
37
38
39
              assumed program library directory: [.lib]
40
             other assumptions:
42
                           - support routines have been compiled, assembled
43
44
       #! set up DEC Ada test environment
       $!
46
       # acps
47
       # use_dec
48
       $ show system
49
       #!---- delete extraneous files -----
50
       $ del [.lib]x.x;x
51
       # acs create library [.lib]
52
        acs set library [.lib]
53
54
55
       #! ----- compile/link test programs -----
56
57
58
       $ set work /quote=4096/extent=8152/adjust
       # show work
59
       $ Jacom adaparm
60
       # acs link/nomap/command=adaparm.tmp adaparm
61
       # Badaparm.tmp
62
       $ del adaparm.tmp; X
63
       $! ----- run adaparm -----
64
65
66
       $ set work /noadjust/quota=850/extent=850
67
       $ show work
```

Table C-6 Command Procedure DDEC:ADAPARM.COM (concluded)

- \$ assign dresult:adaparm.dat results
 \$ copy dresult:empty.dat results:
 \$ our_run adaparm
 \$ show system 68 69 70 71

```
minimum delay time interval = 1.00000E-02 ada clock granularity(seconds)= 0.00994
                                                                        0.009949
ada clock granularity(seconds):
                                                                         0.009949
                                                                         0.009949
                                                                         0.009949
                                                                         0.009949
                                                                         0.009949
ada clock granularity(seconds)=
                                                                         0.009949
                                                                         0.009949
ada clock granularity(seconds) = ada clock granularity(seconds) =
                                                                         0.009949
ada clock granularity(seconds) = duration small = 6.10352E-05
                                                                         0.009949
system.tick= 1.00000E-02
system.fine_delta= 9.31323E-10
system.min_int=-2147483648
system.max_int= 2147483647
system.max_digits=
system.max_mantissa=
                                                          33
standard_input file name=SYS$INPUT:.;
standard_output file name=SYS$OUTPUT:.;
integer'size= 32
 integer'first=-2147483648
 integer'last= 2147483647
short_integer!size=
short_integer!first=
short_integer!last=
                                                      -32768
                                                      32767
 short_integer'iast= 3: short_short_integer'size= short_short_integer'first= short_short_integer'last= positive'size= 3: positive'first= 1 positive'last= 2147483647
                                                                       -128
                                                                       127
  float'size=
                                            32
  float'digits=
  float'emax=
                                            84
  long_float'size=
long_float'digits=
long_float'emax=
                                                      64
                                                           15
                                                     204
 long_long_float'size=
long_long_float'digits=
long_long_float'emax=
                                                               128
                                                                444
```

```
$! Ada Real Time/Run Time Environment Test
 123456789
                                                                        Aerospace Corporation $!
        $!
             Test:
                           SETUP . COM
             File:
        $!
                            2/1/88
                    REK
        $!
             Description:
10
11
        $! *** defines DEC Ada compile/link global symbols and sets the default
        $! *** directory to ddec. It also defines global symbols to invoke command $! *** procedures in directory dsup.
111111122222222223333333333444
2345678901234567890123456789012
        $!
        $!
                 assumed logical names:
                                     - points to directory containing DEC Ada ACPS tests - points to directory containing test support
        *!
                            ddec
        $!
                            dsup
                                        object modules
                                     - directory containing a user written system service to access microsecond level time
        $!
                       systshare
        $!
$!
                 command procedures used:
                   dsup:symbols - defines global symbols our_run,our_show to invoke
        $!
                                        command procedures in directory dsup:
        $!
        ‡! define DCL symbols used in Ada/JOVIAL/FORTRAN command procedures
        # adsup:symbols
        $
        #! define compile/link symbols
        *!
        $ copt :== aopt :== "/nowarn/nolist/nocheck"
        * copt :== mopt :== "/nowmen/nolist/nocheck"

* nopt :== mopt :== "/nowmen/nolist"

* sopt :== mopt :== "/nowmen/nolist/optimize=space"

* topt :== mopt :== "/nowmen/nolist/optimize=time"
        $ anoopt :== aopt :== "/nowarn/nolist/noopt"
        # alist :== aopt :== "/nowarn/list"
        # aopt :== /nowarn/nolist
        $ asys :== dsup:support.olb/library.sys$share:uss.olb/library
        #! set the default directory for DEC Ada
        $!
43
        $ sd ddec
        # assign [ul5554.acps.ada.dec.results] dresult
```

```
12345678910
         $! Ada Real Time/Run Time Environment Test
                                                                                    Aerospace Corporation $!
                                                                                                                      *****
         $!
               Test:
                               SYMBOLS.COM
               File:
         $!
                       REK
                                2/1/88
               Description:
         †!
†! Defines symbols which invoke language independent command procedures
†! and which abreviate commonly used VAX DCL commands. These symbols
†! are used in ACPS compile/execute command procedures.
11
12
13
14
15
16
17
              are used in ACPS compile/execute command procedures.
         †! This procedure is invoked by each language's setup.com command procedure †! which is used to set up compiler specific compile-time/ †! run-time test environments
18
19
22
22
23
24
25
26
27
28
29
30
         †! assumptions:
         *!
                    assumed logical names:
         $!
$!
                                            - directory for Ada/JOVIAL/FORTRAN common support
                                 dsup
                                               routines/command procedures
             our_rxun
our_sxhow
sd
                                 :== #adsup:run#
                                 "== "adsup:show"
                                 :== set default
               shw
                                 :== show status
                                 :== write sys$output
               PMSg
```

Table C-10 Command Procedure DSUP: RUN. COM

```
‡! Ada Real Time/Run Time Environment Test
                                                                       Aerospace Corporation #!
1234567891
                                                                                                    $!
             Test:
                                                                                                    $!
$!
                          RUN. COM
             File:
        $!
                    REK
                           2/1/88
            Description:
                                                                                                    $!
        #! XXXX This command procedure is used to execute Ada/JOVIAL/FORTRAN
       $! XXXX main programs and append the test results to the file with $! XXXX logical names results: . It uses the command procedure $! XXXX dsup:exec.com to do the actual execution. RUN is invoked as
11
12
13
        $! KXXX follows:
145
167
189
120
122
122
123
123
123
133
133
133
134
        #! arun pl
        $!
           where 'pl' is the Ada/JOVIAL/FORTRAN program to be executed
        †! assumptions:
       *!
                 assumed logical names:
        $ ?
                          results - file to contain test result output
       $!
$!
                           dsup
                                    - directory for Ada/JOVIAL/FORTRAN common support
                                       routines/command procedures
        $!
       $! execute the program and direct the results to a temporary file
        $ adsup:exec/output=dsup:temp.dat 'pl'
        * append dsup:temp.dat results:
        $ del dsup:temp.det;X
```

Table C-11 Command Procedure DSUP: EXEC.COM

Table C-12 Command Procedure DSUP: SHOW. COM

```
1234567890123456789012345678
         $! Ada Real Time/Run Time Environment Test
                                                                            Aerospace Corporation $!
                                                                                                            $ !
$ !
        *!
              Test:
                             SHOW COM
              File:
                     REK
                              2/1/88
             Description:
        †! This procedure executes a specified show command and appends its output †! to the file with the logical name results: . It is invoked as follows:
        $! @show 'pl'
                  where 'pl' is the show command to be executed
        #!
#! assumptions:
                  assumed logical names:
                            results - file to contain test result output dsup - directory for Ada/JOVIAL/FORTRAN common support routines/command procedures
         $ adsup:show_/output=dsup:temp.dat 'pl'
         * append dsup:temp.dat results:
         # del dsup:temp.dat; *
```

Table C-13 Command Procedure DSUP:SHOW_.COM

```
Ada Real Time/Run Time Environment Test

Aerospace Corporation

Test:
File: SHOW_.COM

REK 2/1/88

Description:

This procedure executes a specified show command and is invoked as follows:

Show_'pl'

where 'pl' is the show command to be executed

show 'pl'

show 'pl'
```

Table C-14 Command Procedure DDEC: AFIRST.COM

```
$! Ada Real Time/Run Time Environment Test
                                                                     Aerospace Corporation $!
 2
3
                                                                                                  $!
             Test:
                         AFIRST COM
                                                                                                  $!
 456789
             File:
        4 1
                   REK
                           2/1/88
                                                                                                  $!
        $ !
            Description:
       $! **** batch procedure to compile/link/execute Ada ACPS test AFIRST
$! **** output of AFIRST will be written to file dresult:afirst.dat
1011234561789012222222222230
       $! assumptions:
       $ !
                assumed logical names:
        $ !
                                   - top level directory of ACPS test suite
                         dresult - directory that contains ACPS test result output dsup - directory for Ada/JOVIAL/FORTRAN common support
       $!
                                      routines/command procedures
                assumed symbol values:
                                         - executes command procedure dacps:logicals
                           acps
                                           to define logical names, global symbols and
                                           set the default directory to dacps:
                          aopt
                                         - Ada compiler execution options
                                         - list of object modules common to all tests - invokes dsup:run.com which executes the
       $!
                           2575
                           OUT_TUN
       $!
                                           program in the parameter field and appends
                                            the test results to the file with logical
333333333444444
4444
5
       $!
                                           name results.
       š !
                           our show
                                         - invokes dsup:show.com which executes the
       $!
                                           show command in the parameter field and
                                           appends the show command output to the file
       š !
                                           with the logical name results.
       $!
                                         - invokes a command procedure that defines
                           use_dec
                                           global symbols used to compile and execute test programs and sets the current directory to the one containing the Ada ACPS test programs
       $!
       $ !
                essumed program library directory: [.lib]
       $!
               other assumptions:
46
47
48
49
                               - drup support routines have been compiled, assembled
       #! set up DEC Ada test environment
50
51
       # acps
52
53
       # use_dec
        $ show system
54
55
56
       $!----
                ----- delete extraneous files -----
        $ del [.lib]*.*;*
        # acs create library [.lib]
57
        * acs set library [.lib]
58
59
       $! ----- compile test support routines -----
60
61
62
       # ada!aopt oursys
# ada!aopt ourspc.dec ! for non VAX Ada use ourspc.use
63
        # ada'aopt ourdmp
64
       $ ada!aopt ourtyp.vax
$ ada!aopt adasys.dec ! for non VAX Ada use adasys.use
       # ada'aopt adaspc
66
       # ada'aopt adadmp
```

Table C-14 Command Procedure DDEC:AFIRST.COM (concluded)

Table C-15 AFIRST Output for DEC VAX Ada

<adafrst 0.000000<="" th=""><th>1,</th><th>0</th><th>. 0</th><th>0</th><th>0</th><th>5</th></adafrst>	1,	0	. 0	0	0	5
<adafrst 1.939941<="" td=""><td>149999</td><td>194</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	194	0	0	0	5
<adefrst 0.000000<="" td=""><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adefrst>	1	0	0	0	0	5
<adafrst 1.929993<="" td=""><td>149999²</td><td>191</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999 ²	191	0	0	0	5
<adefrat 0.000000<="" td=""><td>1.</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adefrat>	1.	0	0	0	0	5
2 -1 <adafrst 1.939941<="" td=""><td>149999</td><td>192</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	192	0	0	0	5
<adefrat 0.000000<="" td=""><td>1,</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adefrat>	1,	0	0	0	0	5
2 -1 <adafrst 1.939941<="" td=""><td>149999</td><td>194</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	194	0	0	0	5
<adafrst 0.000000<="" td=""><td>1_</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	1_	0	0	0	0	5
2 -1 <adafrst 1.939941<="" td=""><td>149999</td><td>194</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	194	0	0	0	5
<adafrst -1<="" 0.000000="" td=""><td>1,</td><td>D</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	1,	D	0	0	0	5
<adafrst 1.939941<="" td=""><td>149999</td><td>194</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	194	0	0	0	5
<adafrst -1<="" 0.000000="" td=""><td>1,</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	1,	0	0	0	0	5
<adafrst 1.929993<="" td=""><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	193	0	0	0	5
<adafrat -1<="" 0.000000="" 2="" td=""><td>1,</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	1,	0	0	0	0	5
<adafrst 1.939941<="" td=""><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	193	0	0	0	5
<adafrat -1<="" 0.000000="" td=""><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	1	0	0	0	0	5
<adafrst 1.939941<="" td=""><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	193	0	0	0	5
<adafrat -1<="" 0.000000="" 2="" td=""><td>10</td><td>0</td><td>0</td><td>0</td><td>0 .</td><td>5</td></adafrat>	10	0	0	0	0 .	5
<adafrat 1.939941<="" td=""><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	149999	193	0	0	0	5
<adafrat -1<="" 0.000000="" td=""><td>111</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	111	0	0	0	0	5
<adefrat 1.939941<="" td=""><td>149999</td><td>194</td><td>0</td><td>D</td><td>0</td><td>5</td></adefrat>	149999	194	0	D	0	5
<adafrat -1<="" 0.000000="" 2="" td=""><td>1 12</td><td>6</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	1 12	6	0	0	0	5
<adafrat 1.939941<="" td=""><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	149999	193	0	0	0	5
<adafrat -1<="" 0.000000="" td=""><td>13</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	13	0	0	0	0	5
<ade 1.939941<="" rst="" td=""><td>149999</td><td>194</td><td>0</td><td>0</td><td>. 0</td><td>5</td></ade>	149999	194	0	0	. 0	5
<pre><adafrst -1<="" 0.000000="" 2="" pre=""></adafrst></pre>	1	0	0	0	0	5
<adafrst 1.929993<="" td=""><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst>	149999	193	0	0	0	5
<adafrat -1<="" 0.000000="" 2="" td=""><td>1 15</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	1 15	0	0	0	0	5
<edefrst 1.939941<="" td=""><td>149999</td><td>194</td><td>0</td><td>0</td><td>0</td><td>5</td></edefrst>	149999	194	0	0	0	5
<adafrat -1<="" 0.000000="" 2="" td=""><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	1	0	0	0	0	5
<edefrst 1.929993<="" td=""><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></edefrst>	149999	193	0	0	0	5
<adafrat -1<="" 0.000000="" td=""><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	1	0	0	0	0	5
<edefrst 1.939941<="" td=""><td>149999</td><td>194</td><td>0</td><td>0</td><td>0</td><td>5</td></edefrst>	149999	194	0	0	0	5

Table C-15 AFIRST Output for DEC VAX Ada (concluded)

<adafrat<sub>2</adafrat<sub>	0.000000	18	0	0	0	0	5
<adefrat **<="" td=""><td>1.939941</td><td>149999</td><td>193</td><td>0</td><td>0</td><td>0</td><td>5</td></adefrat>	1.939941	149999	193	0	0	0	5
<adafrst< td=""><td>0.000000</td><td>1 19</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrst<>	0.000000	1 19	0	0	0	0	5
<adafrat 2<="" td=""><td>1.9.9961</td><td>149999</td><td>194</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat>	1.9.9961	149999	194	0	0	0	5
<adafrat< td=""><td>0.000000</td><td>1 20</td><td>0</td><td>0</td><td>0</td><td>0</td><td>5</td></adafrat<>	0.000000	1 20	0	0	0	0	5
<adafrst<sup>2</adafrst<sup>		149999	194	0	0	0	5
<tovr< td=""><td>0.000109 136</td><td>.0</td><td>50</td><td>45</td><td>0</td><td>0</td><td>5</td></tovr<>	0.000109 136	.0	50	45	0	0	5
<tovr 2<="" td=""><td>0.000107</td><td>119 0 115</td><td>50</td><td>44</td><td>0</td><td>0</td><td>5</td></tovr>	0.000107	119 0 115	50	44	0	0	5
<tovr 2<="" td=""><td>0.000107</td><td>0 123</td><td>50</td><td>45</td><td>0</td><td>0</td><td>5</td></tovr>	0.000107	0 123	50	45	0	0	5
<tovr 2<="" td=""><td>0.000106</td><td>0 116</td><td>50</td><td>45</td><td>0</td><td>0</td><td>5</td></tovr>	0.000106	0 116	50	45	0	0	5
<tovr 2<="" td=""><td>0.000107</td><td>0 122</td><td>50</td><td>44</td><td>0</td><td>0</td><td>5</td></tovr>	0.000107	0 122	50	44	0	0	5
<tovr 2<="" td=""><td>0.000108</td><td>0 123</td><td>50</td><td>45</td><td>0</td><td>0</td><td>5</td></tovr>	0.000108	0 123	50	45	0	0	5
<tovr 2<="" td=""><td>0.000108</td><td>123 0 115</td><td>50</td><td>45</td><td>0</td><td>0</td><td>5</td></tovr>	0.000108	123 0 115	50	45	0	0	5
<tovr 2<="" td=""><td>0.000109</td><td>0 119</td><td>50</td><td>44</td><td>0</td><td>0</td><td>5</td></tovr>	0.000109	0 119	50	44	0	0	5
<tovr 2<="" td=""><td>0.000107</td><td>0 115</td><td>50</td><td>46</td><td>0</td><td>0</td><td>5</td></tovr>	0.000107	0 115	50	46	0	0	5
<tovr 2<="" td=""><td>0.000110</td><td>115 0 125</td><td>50</td><td>45</td><td>0</td><td>0</td><td>5</td></tovr>	0.000110	115 0 125	50	45	0	0	5
6	144	123					

Table C-16 Command Procedure DDEC: REPEAT.COM

```
Aerospace Corporation $!
            Ada Real Time/Run Time Environment Test
 123456789
                                                                                                         $!
$!
              Test:
                            REPEAT . COM
              File:
                                                                                                         *!
                             2/1/88
                     REK
                                                                                                         $!
              Description:
1Ó
            This command procedure is used to execute AFIRST 50 times
112145678901234567890123456789012345678901234567
        $!
            The output will be placed on DRESULT:REPEAT.DAT and should be inspected
            to see how the execution time varies for each AFIRST execution in order to determine how long each ACPS test should be executed
        #! assumptions:
        $!
                  assumed logical names:
        $!
        *!
                                    - top level directory of ACPS test suite
                           ddec - directory containing DEC Ada ACPS tests dresult - directory that contains ACPS test result output
        $!
        *!
                               dsup - directory containing common language support software and command procedures
        $!
        $!
                  assumed symbol values:

    executes command procedure dacps:logicals
to define logical names, global symbols and

                             acps
        ********
                                               set the default directory to dacps:

    invokes dsup:run.com which executes the
program in the parameter field and appends
the test results to the file with logical

                             our_run
                                               name results.
                                            - invokes dsup:show.com which executes the
                             our_show
                                               show command in the parameter field and
                                              appends the show command output to the file with the logical name results.
                                            - invokes a command procedure that defines
                             use_dec
        $!
$!
                                               global symbols used to compile and execute test programs and sets the current
                                               directory to the one containing the Ada ACPS test programs
        $!
                  other assumptions:
        # !
                          - AFIRST has been compiled/linked
        #! get to appropriate directory
        # acps
        # use_dec
        # show system
        #! ensure that the output is written to REPEAT.DAT
        * copy dresult:empty.dat dresult:repeat.dat
        # assign dresult:repeat.dat results
58
59
60
61
62
63
66
66
67
        $! set the working set size appropriately
          set work /noadjust/quota=850/limit=850
        # our_show work
        #! execute AFIRST 50 times
        #!
        $ count = 0
        $ 100p:
```

Table C-16 Command Procedure DDEC:REPEAT.COM (concluded)

68 69 70	\$ \$ \$	<pre>our_run AFIRST count = count + 1 if(count .lt. 50) then goto loop</pre>
71 72	\$! \$ show	system

Table C-17 Command Procedure DDEC: ABATCH.COM

```
#! Ada Real Time/Run Time Environment Test
                                                                             Aerospace Corporation $!
 12345
              Tact:
                            ABATCH COM
                                                                                                            *!
        $!
              File:
        $!
                                                                                                            $!
                                                                                                            6!
 67
                           2/1/88
                     REK
        $!
 89
        $!
              Description:
        $! XXXX batch procedure to compile/link/execute Ada ACPS test suite
$! XXXX compilation result output will be on file dresult:acomp.dat
$! XXXX execution result output will be on file dresult:aexec.dat
10
112345678901234567890123456789012345678
        #! assumptions:
        $ !
                  assumed logical names:
                            dacps - top level directory of ACPS test suite dresult - directory that contains ACPS test result output
        $!
        *!
                  assumed symbol values:
                                              - executes command procedure dacps:logicals
                              acps
        *!
                                                 to define logical names, global symbols and
                                              set the default directory to dacps: - invokes a command procedure that defines
        $!
                              use_dec
                                                global symbols used to compile and execute
test programs and sets the current
directory to the one containing
the Ada ACPS test programs
        *!
        *!
        $ !
        $!
                 other assumptions:
        $!
                                  - dsup support routines have been compiled, assembled
        $! set up DEC Ada test environment
        $ acps
        # use_dec
        $ show system
        $! ----- compile/link test programs -----
        $
        # @acomp/output=dresult:acomp.dat
        $! ----- execute test programs -----
49
        $ copy dresult:empty.dat dresult:aexec.dat
50
        * assign dresult:aexec.dat results
51
          Saexec
52
        $ show system
```

Table C-18 Command Procedure DDEC:ACOMP.COM

```
$! Ada Real Time/Run Time Environment Test
                                                               Aerospace Corporation #!
                                                                                        $!
$!
            Test:
                        ACOMP.COM
            File:
 5
 67
                  REK
                        2/1/88
                                                                                         *!
 89
       $!
                                                                                         * !
           Description:
                                                                                         *!
10
11
12
13
       $! XXXX compile/link ADA test programs
       $!
                 assumed logical names:
14
                                   - ADA/JOVIAL/ADA common support routines
       $!
                           dsup
                 assumed symbol values:
16
17
       $!
                           aopt
                                   - ADA compiler options
                                   - list of object modules common to all tests - outputs parameter on systoutput
                           asys
18
                           Dms Q
                                   - show status
                           shw
20
21
22
23
24
25
26
27
28
29
                 command procedures used:
                                   - compiles program/package modules and
                           a com
                                     generates show status records
       $!
                                   - links Ada programs and generates show status
                           alnk
                                     records
                                   - calculates/prints/sums source module sizes
                           BETC
       $!
                                   - calculates/prints/sums object module sizes
                           aobj
                                   - calculates/prints/sums load module sizes
30
31
       $!
                 assumed program library directory:
       $!
                           [.lib]
32
33
       $!--
34
       $! set work set limits
35
       $ set work /quota=4096/extent=8152/adjust
36
       $ show work
37
                   -- delete extraneous files -----
38
       $ del [.lib...] .x;x
39
       * acs create library [.lib]
       # acs set !ibrary [.lib]
40
41
       $ purge X.X
42
       # del X.obj;X,X.exe;X
43
44
45
       $ pmsg #<start compiles#
$! compile ADA test programs and support routines</pre>
46
       $ pmsg "<system"
       $ shw
47
48
       # ada aopt oursys
49
       $ ada'aopt ourspc.dec ! for non VAX Ada use ourspc.use
       # ada aopt ourdmp
# ada aopt ourtyp.vax
50
51
52
       $ ada aopt adasys.dec ! for non VAX Ada use adasys.use
53
54
       # ada'aopt adaspc
       # ada aopt adadmp
       * ada'aopt adatyp.vax
55
56
57
       # ada'aopt mathfun.dec !for non VAX Ada - redevelop
       $ shw
58
       $ acs create sublibrary/parent=[.lib] [.lib.sub]
$ @acom AAOPOOO
59
60
61
       # aacom AADDDDD
       $ Bacom AAOPOOD
62
         Jacom AA00000
63
       $ Bacom AFOPODO
       # @acom AF05305
# @acom AF05306
64
65
66
       # @acom AF05307
       $ Pacom AF05308
```

Table C-18 Command Procedure DDEC: ACOMP.COM (continued)

```
68
         # Bacom AGOPOOO
         $ pmsg "<AG00008"
 69
 70
         $ shw
 71
72
         $ ada'aopt AG00003
         $ ada aopt AG00004
 73
74
75
         # ada aopt AG00005
         # ada aopt AG00006
         $ ada aopt AG00007
 76
         # ada aopt AG00008
 77
         $ shw
         $ 2acom AGM0008
$ 2acom A00P000
 78
 79
 80
         $ 2acom A000505
        $ Jacom A000506
$ Jaink AF05308
$ pmsg "<end compiles"</pre>
 81
 82
 83
 84
        †! link programs
† pmsg "<start links"
 85
 86
 87
         * acs set library [.lib]
 88
         # Palnk AADDOOD
         # 2mlnk AG00008
 89
 90
         $ 2alnk AGM0008
         # 2mlnk A000506
 91
        $ pmsg "<end links"
$!
 92
 93
         #! source file storage
 94
        $ source_size ** 0
$ pmsg "<start source size"
 95
 96
 97
         # Dasrc "system" oursys, ourdmp, ourtyp, adasys, adadmp, adatyp, mathfun, ourspc, adasp
 98
         $ Past WH AAOPOOD
 99
         $ 3asrc ** AA00000
         # Jasrc "system" oursys, ourdmp, adasys, adadmp
# Jasrc "" AAOPOOO
100
101
         $ Jasec ""
102
                        AA00000
         # Pasrc ** AF0P000
# Pasrc ** AF05305
103
104
         # 2asrc ** AF05306
105
         $ Paste WM AF05307
106
         $ Pagre ** AF05308
107
         $ Past ** AGOPOOD
108
         * Dasrc AG00008 AG00003, AG00004, AG00005, AG00006, AG00007, AG00008 * Dasrc TT AGM0008
109
iio
         # Jasrc ##
                        ADDPDDD
111
112
                        A000505
         $ 3asrc ** A000506
113
         # pmsg "<end source size * "source_size""
114
115
116
         #! object file storage
        # object_size *= 0
# pmsg "<start object size"</pre>
117
118
         # assign [.lib] objlib
119
        * alobj "system" oursys, ourdmp, ourtyp, adasys, adadmp, adatyp, mathfun, ourspc, adasp

* alobj "" AAOPOOO

* alobj "" AAOOOOO

* alobj "" AFOPOOO

* alobj "" AFOPOOO
120
īžī
122
123
124
         $ 200bj ** AF05305
         * 20055 ** AF05306
125
         # 20055 ** AF05307
126
127
         * 200bj ** AF05308
         $ 2mobj ** AGOPOOD
128
         # 2aobj AG00008 AG00003,AG00004,AG00005,AG00006,AG00007,AG00008
# 2aobj ## AGM0008
129
130
         $ 2aobj ** A00P000
131
         $ 20005 ** A000505
132
         # aaobj ** A000506
# pmsg *<end object size * ''object_size'*</pre>
133
```

Table C-18 Command Procedure DDEC: ACOMP.COM (concluded)

Table C-19. Command Procedure DDEC:ACOM.COM

```
Aerospace Corporation #!
            $! Ada Real Time/Run Time Environment Test
1234567890
            $!
                    Test:
                                         ACOM.COM
                    File:
                                                                                                                                                            $ !
$ !
                               REK
                                           2/1/88
                                                                                                                                                            • !
• !
                   Description:
            †! This command procedure compiles DEC Ada ACPS tests
†! It is invoked by the DEC Ada ACPS compile/link command procedure
†! with a single parameter that identifies the file to be compiled
†! It assumes that the source file is contained in a file with 1 of
†! 3 different file types which are searched in the following order:
| ada,.vax,.dec
112345167189
122222222223332
22222223332
            $! .ada,.vax,.dec
$! It outputs status records to sysfoutput that show the cpu/io impact
            $! of the compilation
                              if f$search(pl + ".ada")
if f$search(pl + ".vax")
if f$search(pl + ".dec")
                                                                                    .nes. *** then goto cont_2
.nes. *** then goto cont_1
.nes. *** then goto cont_0
          $ ADA'AOPT 'file_name'
            $ SHH
33
            $ exit:
```

Table C-20 Command Procedure DDEC:ALNK.COM

```
Aerospace Corporation $!
$!
$!
$!
$!
$!
             $! Ada Real Time/Run Time Environment Test
  123456789
            $ !
                    Test:
File:
                                         ALNK COM
            $!
            $!
                               REK
                                          2/1/88
            $!
                    Description:
            †! This command procedure links DEC Ada ACPS tests
†! It is invoked by the DEC Ada ACPS compile/link command procedure
†! with a single parameter that identifies the main program name
†! It outputs status records to systoutput that show the cpu/io impact
†! of the link
10
11
12
13
14
15
16
17
18
19
20
21
            * PMSG "<"Pl"
            $ SHW
$ ACS LINK/NOMAP/COMMAND='P1'.TMP 'P1' 'ASYS
$ 3'P1'.TMP
            $ SHH
            $ DEL 'P. '. TMP; X
```

```
$! Ada Real Time/Run Time Environment Test
                                                                                Aerospace Corporation $!
 23456789
         $!
         $!
               Test:
              File:
                              ASRC.COM
         $!
         $!
                      REK
                               2/1/88
                                                                                                                 $!
         $!
              Description:
10
         $ !
11
             This command procedure is used by the DEC Ada ACPS compile/link
12
13
         $!
             command procedeure and is invoked as follows:
#! @asrc pl p2
         $!
         $! The command procedure determines the size of source files for
         $! filenames specified in argument p2 and outputs a message to
        #! systoutput as follows:
#! <pl siz
                                             where siz is the size of the source files
         $ !
                                             for filenames in parameter p2
         $!
                                             If pl is null, then the last filename in p2
         $! is used for pl.
$! The procedure also adds the size of the source files to the global
         $! symbol source_size.
         $!
                      total_size = 0
         $loop:
                      comma_location = f$locate("," , p2)
file_length = f$length( p2 )
if comma_location .eq. file_length then goto last_file
file_name = f$\text{tract( 0 , comma_location , p2 )}
if f$\text{search(file_name + ".ada") .nes. "" then goto loop_2
if f$\text{search(file_name + ".vax") .nes. "" then goto loop_1
if f$\text{search(file_name + ".dec") .nes. "" then goto loop_0
note_length."
         ŝ
         $
         ŝ
                      goto loop
37
38
39
         $loop_0: file_name = file_name + ".dec"
$ goto loop_3
         $loop_1: file_name = file_name + ".vax"
         $ goto loop_3
$loop_2: file_name = file_name + ".ada"
4012345678
         $100P_3:
                      total_size = total_size + f#file_attributes( file_name , "c
p2 = f#extract( comma_location + 1 , f#length( p2 ) , p2 )
                                                                                                           Meof# )
                      goto loop
         #last_file:
                      file_name = p2
if ffsearch(file_name + ".ada")
if ffsearch(file_name + ".vax")
if ffsearch(file_name + ".dec")
                                                                       .nes. ** then goto last_2 .nes. ** then goto last_1
49
50
                                                                       .nes. "" then goto last_0
51
52
53
                      goto exit
         $last_0: file_name = file_name + ".dec"
$ goto last_3
         $last_1: file_name = file_name + ".vax"
$ goto last_3
54
55
56
57
58
59
         $last_2: file_name = file_name + ".ada"
         $last_3:
                      total_size = total_size + f#file_attributes( file_name , "eof" )
                      if pl .eqs. "" then pl = p2
60
         *exit:
61
                      write systoutput "<"pl' "total_size"
                      source_size == source_size + total_size
62
```

Table C-22 Command Procedure DDEC: ADBJ.COM

```
Aerospace Corporation $!
            ‡! Ada Real Time/Run Time Environment Test
            $!
                   Test:
                                       ADBJ.COM
                                                                                                                                                    $!
  4
            $!
                   File:
            $!
                                                                                                                                                    $!
 ē
7
            41
                             REK
                                        2/1/88
  8
            $!
                  Description:
                                                                                                                                                    $!
  ğ
10
11
12
13
            ‡! This command procedure is used by the DEC Ada ACPS compile/link
            $! command procedure and is invoked as follows:
14
15
            $! @aobj pl p2
16
17
           †! The command procedure determines the size of object files for ‡! filenames specified in argument p2 and outputs a message to
18
            $! sys$output as follows:
19
                                       <pl siz
20
21
22
23
24
            $!
                                                          where siz is the size of the object files
                                                           for filenames in parameter p2
                                                           If pl is null, then the last filename in p2
            $ !
           $! is used for pl.
$! The procedure also adds the size of the obsect files to the global
25
26
27
            $! symbol object_size.
            $!
                         assumed logical names:
28
29
30
            *!
                                                 objlib - points to the directory containing the object
            $!
                                                                  modules for the input filename
            $!
31
                             total_size = 0
32
33
            $100p:
                             comma_location = f$locate("," , p2)
file_length = f$length( p2 )
if comma_location .eq. file_length then goto last_file
temp_name = f$extract( 0 , comma_location , p2 )
34
35
36
           under = ""

tcont_1: file_name = "objlib:" + temp_name + under + ".obj"

if ffsearch(file_name) .eqs. "" then goto cont_2

total_size = total_size + fffile_attributes( file_name , "eof" )

file_name = "objlib:" + temp_name + under + ".adc"

total_size = total_size + fffile_attributes( file_name , "eof" )

file_name = "objlib:" + temp_name + under + ".acu"

total_size = total_size + fffile_attributes( file_name , "eof" )

tcont_2: if( under .eqs. "_") then goto cont_3

under = ""

pote_cont_1
                             under = ""
37
38
39
40
41
42
43
44
45
46
47
48
           # goto cont_1
$cont_3: p2 = f$extract( comma_location + 1 , f$length( p2 ) , p2 )
goto loop
            #last_file:
                               under = **
            $cont_4: file_name = "objlib:" + p2 + under + ".obj"

$ if f*search(file_name) .eqs. "" then goto cont
           total_size = total_size + fffile_attributes( file_name , "eof" )
total_size = total_size + fffile_attributes( file_name , "eof" )
file_name = "objlib:" + p2 + under + ".acu"
total_size = total_size + fffile_attributes( file_name , "eof" )
file_name = "objlib:" + p2 + under + ".adc"
total_size = total_size + fffile_attributes( file_name , "eof" )
total_size = total_size + fffile_attributes( file_name , "eof" )
total_size = total_size + fffile_attributes( file_name , "eof" )
under = ""
59
                             under =
60
           61
62
63
                               object_size == object_size + total_size
```

Table C-23 Command Procedure DDEC: AEXE.COM

```
$! Ada Real Time/Run Time Environment Test
                                                                                          Aerospace Corporation #!
$!
$!
          *****
                 Test:
                                  AEXE.COM
                 File:
                                                                                                                               $!
$!
                         REK
                                   2/1/88
                 Description:
          $!
                                                                                                                               $!
          $!
              This command procedure is used by the DEC Ada ACPS compile/link command procedure and is invoked as follows:
          $! Jaexe pl
          $!
          $! The command procedure determines the size of the load module file $! for the file specified in argument pl and outputs a message to
               sys$output as follows: <pl siz
          #! where siz is the size of the load files
for the filename in parameter pl
#! The procedure also adds the size of the load files to the global
#! symbol executable_size.
          $!
                         file_name = #''pl'# + #.exe#
total_size == fffile_attributes( file_name , #eof# )
write_sysfoutput_#<''pl' ''total_size''#
                         executable_size == executable_size + total_size
```

Table C-24 Command Procedure DDEC: AEXEC.COM

```
$! Ada Real Time/Run Time Environment Test
                                                                 Aerospace Corporation $!
*!
       $!
            Test:
            File:
                        AEXEC . COM
       $ !
                         2/1/88
       $!
                  REK
       $ !
            Description:
       †! this command procedure executes DEC Ada versions of ACPS test programs
               assumed logical names:
       $!
                                  - points to directory containing test input data
                          da ta
                                     files
                                  - directory containing common language support
       $!
                                    software and command procedures
               assumed symbol values:
       $!
                                       - invokes dsup:run.com which executes the
                         OUT_TUD
                                         program in the parameter field and appends the test results to the file with logical
       $!
                                         name results.
                          our_show
                                       - invokes dsup:show.com which executes the
                                         show command in the parameter field and
                                         appends the show command output to the file with the logical name results.
       $ set work/limit=850/quota=850/noadjust
       $ our_show work
       #!use show status to time aa00000 and all test program loading time
       $ our_show status
$ our_run AA00000
$ our_show status
       # our_show status
       $ our_run af05308
$ our_run ag00008
       $ our_run agm0008
       * our_run accossos
* our_show status
       $ set_work/adjust
       $ our_show status
$ set work/adjust
```

Table C-25. Command Procedure DTOOL:CCOMP.COM

```
$! Ada Real Time/Run Time Environment Test
                                                                           Aerospace Corporation c
 ž
 3
              Test:
                                                                                                         c
                            CCOMP.COM
 456789
              File:
                                                                                                         C
                                                                                                         C
                     REK
                             2/1/88
                                                                                                         C
                                                                                                         C
        $!
              Description:
                                                                                                         c
10
11
12
13
14
15
16
17
18
                  This file contains the command procedure to execute the ACPS compilation comparison program CCOMP and is invoked as follows:
        $!
        $!
                  accomp pl p2 p3 p4
                         where
        $!
        $ !
                                  - gives the filename of the compilation result file assigned to logical unit 7
                          ρl
        $!
        $!
$!
                                     gives the filename of the compilation result file
122222222223333333333444444444455
122222222223333333333344444444455
                          P2
                                     assigned to logical unit 8
                                     gives the filename of CCOMP outputs on logical units
                          p3
        $!
                                     9,10,11
                                     gives the filename of command input. If absent, then command input is read from the terminal
                          P4
        $!
        $!
                   The following shows logical name assignments and complete file
        $!
                   names for all input/output files to CCOMP:
        $!
                       name
                               type
                                         filename
                                                                 description
        *!
        $!
        $ !
$ !
                   for005
                                input 'p4'.dat
                                                           User command input
                   for006
                                output systoutput
                                                           Terminal output for prompts and error
        *!
                                                           2904229
        $!
                                         'pl'.dat
                   for007
                                                            Unformatted ACPS compilation result file
                                input
                                input 'p2'.dat
output 'p3'.u09
                   forD08
                                                            Unformatted ACPS compilation result file
                                                           ACPS compilation comparison file Unit 7 formatted with headings and with
        $!
                   for009
        $!
                                output 'p3'.u10
                   forDlD
                                                            VMS status records processed
        $!
                                output 'p3'.u11
                                                            Unit 8 formatted with headings and with
                   for011
                                                            VMS status records processed
        $!
        #!
                assumptions:
        *!
                      assumed logical names:
        *!
                              dtool - directory containing ACPS compilation/test result
        $!
                                         comparison tools
        # if p4 .nes. ** then essign 'p4'.det for005
        tif p4 .nes. "" then assign 'p4', dat forUUS' if p4 .eqs. "" then assign systcommand forUUS' assign 'p1'.dat forUUS' assign 'p2'.dat forUUS' assign 'p3'.u09 forUUS' assign 'p3'.u10 forU10 assign 'p3'.u11 forU11
52
53
54
55
56
57
58
        # assign systoutput for006
        * run dtool:ccomp
59
60
61
62
          deassign for005
           deassign for 006
          deassign for007 deassign for008
63
        # deassign for009
64
           deassign for 010
        # deassign forDll
```

Table C-26. Command Procedure DTOOL:CEXEC.COM

```
Aerospace Corporation c
         $! Ada Real Time/Run Time Environment Test
 1234567
                                                                                                                      C
               Test:
                               CEXEC. COM
                                                                                                                     c
               File:
                                                                                                                     C
                       REK
                                2/1/88
                                                                                                                     C
                                                                                                                     c
 89
         $!
               Description:
                                                                                                                     c
         $!
                    This file contains the command procedure to execute the ACPS test result comparison program CEXEC and is invoked as follows:
10
11
12
13
14
15
16
17
18
         #!
         $!
                    accomp pl p2 p3 p4
         $ !
$ !
                           where
                                       - gives the filename of the test result file to be assigned to logical unit 7
         $!
                             pl
         *!
                                       - gives the filename of the test result file to be
                             P2
                                         essigned to logical unit 8 gives the filename of CEXEC outputs on logical units 9,10,11,12
201223222222331
201222222222331
         *!
                             P3
         $!
                                       - gives the filename of command input. If absent, then command input is read from the terminal
         *!
                             P4
         $!
$!
                     The following shows logical name assignments and complete file names for all input/output files to CEXEC:
         *!
         *!
         *!
                         name
                                    type
                                              filename
                                                                     description
         $!
$!
         $!
$!
32
33
34
35
36
                      for005
                                   input 'p4'.dat
                                                                  User command input
                                                                  Terminal output for prompts and error
                      for006
                                   output systoutput
                                                                  messages
                                                                  Unformatted ACPS test result file Unformatted ACPS test result file
                                   input 'pl'.dat input 'p2'.dat
         *!
                      for007
         ...
                      for008
37
38
39
                                                                  ACPS test result comparison file Unit 7 formatted with headings and with
                      for009
                                    output 'p3'.u09
                                    output 'p3'.u10
                      for010
                                                                  test overhead values subtracted Unit 8 formatted with headings and with
         $ !
$ !
for011
                                   output 'p3'.ull
                                                                  test overhead values subtracted Optionally generated file that contains
                      for012
                                   output 'p3'.ul2
         *!
                                                                   the minimum or meximum run statistics
                                                                   for corresponding test results output on
                                                                   units for010, for011
         .
         $!
         *!
                  essumptions:
         •
                        assumed logical names:
                                  dtool - directory containing ACPS compilation/test result
         .
         ŧ!
                                              comparison tools
         $!
         # if p4 .nes. *** then assign 'p4'.dat for005 
# if p4 .eqs. *** then assign systcommand for005 
# assign 'pl'.dat for007
         # assign 'pl'.dat for00/
# assign 'p2'.dat for008
# assign 'p3'.u09 for009
# assign 'p3'.u10 for010
# assign 'p3'.u12 for012
# assign 'p3'.u12 for012
57
58
59
60
61
62
63
         # assign systoutput for006
         # run dtool:cexec
64
65
66
67
         # deassign for005
         # deassign for006
         # deassign for007
         # deassign for008
         $ deassign for009
$ deassign for010
68
69
         $ deassign for011
$ deassign for012
70
```

71

APPENDIX D

Ada TEST INTERFACE PACKAGE SPECIFICATIONS

This appendix lists the Ada package specifications for the common language test support software. It also lists the Ada specifications for non-Ada procedures that access target operating system-dependent performance statistics. All compiler-dependent statements (i.e., those suffixed with the string --*) are specific to the DEC VAX Ada compiler and may have to be changed for other Ada compilers.

Tables D-1 and D-2 list the specifications for the package OURSYS which defines test support procedures, data types, and global variables for use by all Ada tests. Table D-3 lists the specification for the package OURSPC which defines numerous composite data types and global variables that are used by many ACPS tests. Test descriptions in Appendix F refer to these types by name using capital letters (e.g., RECORDS and RECORD_POINTER). Table D-4 lists the specification for the package OURTYP which defines compiler- and machine-dependent numeric data types and global variables declared with these types. Test descriptions in Appendix F refer to these types by name if the test uses any of the types or global variables declared in OURTYP. The package specification for test support software procedures that dump global variables contained in packages OURSYS and OURSPC is shown in Table D-5. The package MATHFUN, shown in Table D-6, is used by tests to access compiler-dependent mathematics function libraries. Rename statements are used to standardize names of mathematics routines to those used in the Whetstone test.

The package body of OURSYS implements the test support procedures defined in the package specification shown in Table D-1. To provide the ability to read time to the microsecond level and to access additional performance statistics, procedures within the body of OURSYS reference operating system-dependent procedures to perform these tasks. The Ada specification for these procedures is shown in Table D-2 which lists the declarative part of the package body for OURSYS. As shown in the interface pragma statements contained in lines 281 to 285 of Table D-2, these procedures are: GETTIM, GSTATS, INITIM, ISTATS, and SECS. For the VAX/VMS version of ACPS, these procedures are provided in the directory [acps.support] as FORTRAN and MACRO subroutines. As can be seen in Appendix A, these routines are not supplied on the ACPS delivery tape in ANSI format. New versions of these routines must be implemented for each new target operating system.

The following provides further clarifications on the function of these external procedures:

- a. Microsecond level time is assumed to be a floating point number expressed in units of seconds to microsecond level accuracy.
- b. The value returned by the external function SECS is assumed to be in floating point format in units of seconds.

c. The operating system statistic array set by procedure GSTATS is assumed to contain OURSYS.NCPUST (i.e., 9) elements. The first OURSYS.NTOSUB (i.e., 4) elements are assumed to increase and the difference of the values from the start to the end of a test will be output on the test result file. For the remaining elements in the array, the value at the end of test execution is output to the test result file.

Table D-1 DURSYS Package Specification

```
-- Ada Real time/Run time Environment Test
                                                           Aerospace Corporation --
 1234567
          Test:
                      OURSYS
          File:
      --
                REK, MJM, KMB
                               2/1/88
 89
          Description:
10
      -- *** This package defines the language independent
      -- XXXX test statistic interface routines used by all ACPS tests.
-- XXXX DURSYS defines various numeric datatypes(e.g our_integer) to
11
                                                                                    --
      -- XXXX ensure that for each test the size of datatypes manipulated -- XXXX is compiler independent for a single machine (e.g. VAX). Global--- XXXX variables of various datatypes are defined for use by each test---
13
14
15
16
17
      -- XXXX program.
      18
      -- XXXX Note: In the Ada version of DURSYS, statements followed by --X --
19012234567890
      -- XXXX
                     are implementation dependent and may need to be changed --
                     for each compiler and for each machine. ---
Changes may also be required to the corresponding ---
statements in the JOVIAL and FORTRAN versions of OURSYS.--
      -- ****
      -- XXXX
      -- FEEE
      with system; use system;
      with calendar; use calendar;
      with text_io; use text_io;
      with unchecked_conversion;
      package oursys is
31
32
33
      -- data types (machine word length integer, float) used in tests --
34
35
36
      37
38
         subtype our_string is string; --x
39
                                is delta 0.125 range 0.0 .. 1024.0;
         type our_fixed
40
41
42
43
                                                      1--X
         subtype our_integer is integer
         subtype our positive is positive subtype our natural is natural subtype our float is float subtype one to 3 is integer
                                                      ;--X
                                                      } ---×
44
45
46
47
                                                       ;--X
                                is integer range 1..3;
         -- file management definitions --
subtype file_name is our_strin
subtype file_form is our_strin
subtype fin_fo is our_strin
subtype test_id is our_strin
subtype test_ext is our_strin
                                is our_string(1..11) is our_string(1..80)
48
49
50
                                                        ; --X
                                                        ;--×
                                is our_string(1..8)
51
52
                                                        ;--X
                                is our_string(1..7)
                                is our_string(1..3)
53
54
55
      56
      -- unchecked conversions
      57
58
59
60
         function address_to_integer is new
61
                   unchecked_conversion(address,pur_integer); --*
63
64
      65
66
```

Table D-1 OURSYS Package Specification (continued)

```
is new fixed_io (our_fixed);
is new float_io (our_float);
is new integer_io (our_integer);
            package ourfixed_io
            package ourfloat_io
 69
70
71
72
73
74
75
76
77
            package ourinteger_io
            use ourfixed_io;
            use ourfloat_io;
            use ourinteger_io;
         78
79
         80
 81
82
         -- finame (testid, fname)
                                                - constructs a --
                                                   implementation dependent --
 83
                                                   file name --
 84
85
86
         -- fiform (finfo, fform)
                                                - constructs a --
                                                   implementation dependent --
 87
                                                   file form --
 88
 89
90
91
         -- mstart
                                    - start a microsecond level test iteration --
 92
93
94
95
96
97
                                    - stop a microsecond level test iteration --
         -- mstop
                                      and record the elapsed time --
                                    - used to prevent optimization of test code --
within test loops. Also causes output of test --
statistics after first test iteration --
         -- nooptm
         --
 98
 99
         -- tcomp
                                    - cause comparison of the next test execution --
100
                                      to the saved test execution --
101
102
         -- tfail (errcod)
                                   - outputs a test failure error message with --
                                    error code errcod --
- intialize test environment --
call istats to initialize non-ada routines --
103
104
         -- tinit
105
                                      determine overhead of normal test loop -- determine overhead of microsecond level test --
106
         --
107
         --
108
         --
                                      100p --
109
110
         -- tprint
                                    - print test results stored by tstop and tstopm --
111
112
113
                                    - save test statistics for later comparison --
         -- tsave
                                    - start a test using ada time (if possible)
- test identification (7 characters)
114
         -- tstart (td)
115
116
117
                      td
                                    - retrieve & store test statistics at end of --
         -- tstopm
118
                                      microsecond tests. -
119
120
121
122
123
124
125
126
127
128
                                    - retrieve & store test statistics at end of --
         -- tstop
                                      a test --
                                    - store val into print buffers
         -- tlvalu (val)
         -- t2valu (tv1, tv2) - stores test values tv1, tv2 into test print -- buffers for output with test results --
129
130
            procedure finame (testid : in test_id;
                                             : out our_string
                                   fname
131
132
            procedure fiform (finfo
                                            : in fin_fo;
133
                                            : out our_string
134
                                   fform
```

Table D-1 DURSYS Package Specification (continued)

```
135
                            );
136
137
          procedure mstart;
138
139
          procedure mstop:
140
141
          procedure nooptm;
142
143
          procedure tcomp (testn : test_id);
144
145
          procedure tsave;
146
147
          procedure tfail (errcod : in our_integer);
148
149
          procedure tinit;
150
151
152
          procedure tprint;
153
          procedure tstart (td : in test_id);
154
155
156
          procedure tstopm;
157
158
          procedure tstop;
159
          procedure tlvalu (val : in our_integer);
160
161
          procedure t2valu (vall, val2 : in address);
162
       163
164
       -- test iteration parameters--
165
       166
       -- maxitr - maximum # of loop iterations in tests -- micitr - maximum # of iterations in microsecond level tests --
167
168
169
          maxitr : constant our_integer := 150000; --x micitr : constant our_integer := 50;
170
171
172
173
       174
       -- test global variables--
175
       176
177
       -- all global variables are initialized by tinit --
178
       -- global variables are reset by test start procedures -- (tstart, mstart) and are conditionally set/used by nooptm --
179
180
181
       -- to prevent removal of test code from the test loops. --
182
183
       -- debug - used to control whether print is generated from routines --
184
                   in package ourdmp that are called by test programs to dump --
185
                   global variables for debugging purposes. -
186
             type debug_type is (OFF,ON);
187
188
             debug : debug_type := OFF;
189
       -- delay_test - used to indicate in microsecond level tests whether the -- Ada delay statement is being tested
190
191
192
193
             delay_test : boolean := false;
194
       -- max_memory - this is the maximum memory unit size used in the -- memory mamagement tests. The largest amount of memory
195
196
                        memory mamagement tests.
                        created dynamically will be an array of 1 .. max_memory.
197
198
             max_memory : constant our_integer := 2xx18; ~-x
199
200
```

Table D-1 DURSYS Package Specification (continued)

```
202
          -- minimum_delay_interval - this is the minimum delay time supplied in
                                                an Ada delay statement to force invocation of a lower priority task. It is determined
203
204
205
                                                automatically by the program ADAPARM.
206
207
                  minimum_delay_interval : constant duration := 0.01; --*
208
209
          -- our_delay - the delay interval used in microsecond level tasking tests
210
211
                              (e.g. time to wake up after a delay, time to activate
                                      a lower priority task after a delay). It should
212
                              be greater than the minimum delay interval supported
213
214
                              by an Ada run time environment and >= duration'small,
                              system.tick.
215
216
              our_delay : constant duration := 10 * minimum_delay_interval; --*
217
218
          -- liters - used by all test loops as the test iteration count--
initialized by tinit, tstart --
219
220
221
222
223
                 incremented by nooptm, mstart --
                  liters : our_integer := 0;
224
225
226
227
228
         -- set_tmp - used to determine whether mstart and --
         -- tstart are to reset the tmpx global variables. set tmp is set by --
-- test programs before calling tstart to indicate that initial --
         -- values are being given to the tmpx variables. tstop and tstopm -- always reset set_tmp --
229
230
231
232
233
                  set_tmp : boolean := false;
234
         -- integer variables ( all variables = 3 except tmpis0 which is 0) --
235
236
                                   set/used --
                  tmpis0 : our_integer;
tmpis1 : our_integer;
tmpis2 : our_integer;
237
238
239
240
                  tmpis3 : our_integer;
                  tmpis4 : our_integer;
tmpis5 : our_integer;
241
242
243
                  tmpis6 : our_integer;
                  tmpis7 : our_integer;
tmpis8 : our_integer;
244
245
246
                  tmpis9 : our_integer;
                  tmpisa : our_integer;
tmpisb : our_integer;
247
248
249
                  tmpisc : our_integer;
tmpisd : our_integer;
tmpise : our_integer;
250
251
252
                  tempi : our_integer;
253
254
                  type max_mem is array(our_integer range <>) of our_integer;
255
256
257
                  type array_pointer is access max_mem;
                  type integer_vector is array (our_integer range <>) of our_integer;
                  type integer_matrix is array (our_integer range <>,
                                             our_integer range <>) of our_integer;
is array (our_integer range <>,
258
259
                  type integer_3d
260
                                                           our_integer range <>,
                                                           our_integer range <>>) of our_integer;
261
                 subtype integer_array_50 is integer_vector (1..50);
subtype integer_array_3_3 is integer_matrix (1..3, 1..3);
subtype integer_array_3_3_3 is integer_3d (1..3, 1..3, 1..
subtype integer_array_10 is integer_vector (1..10);
262
263
264
265
266
                  tmpial : integer_array_50
                  tmpia2 : integer_array_3_3;
tmpia3 : integer_array_3_3_3;
267
268
```

Table D-1 DURSYS Package Specification (continued)

ŧ

```
269
                    tmpia4,tmpia5,tmpia6 : integer_array_10;
 270
                   mem : array_pointer;
 271
272
           -- arrays not defined in type statements --
 273
 274
                    tmpaul : array ( our_integer range 1..50) of our_integer;
tmpau2 : array ( our_integer range 1..3, our_integer range 1..3)
 275
                   of our_integer;
tmpau3 : array ( our_integer range 1..3, our_integer range 1..3, our_integer;
our_integer range 1..3) of our_integer;
276
277
278
279
280
281
                                      used only --
282
                   tmpiul : our_integer;
tmpiu2 : our_integer;
tmpiu3 : our_integer;
283
284
285
                   tmpiu4 : our_integer;
tmpiu5 : our_integer;
286
287
288
          -- integer variables range 1..3 --
289
                            set/used
                   tmpi1 : one_to_3;

tmpi2 : one_to_3;

tmpi3 : one_to_3;

tmpi4 : one_to_3;

tmpi5 : one_to_3;

tmpi6 : one_to_3;
290
291
292
293
294
295
296
                   tmpi7 : one_to_3;
tmpi8 : one_to_3;
tmpi9 : one_to_3;
297
298
299
                   tmpia : one_to_3;
300
301
          -- positive variables --
302
                           set/used --
303
                   tmpn1 : our_positive;
304
                   tmpn2 : our_positive;
                   tmpn3 : our_positive;
tmpn4 : our_positive;
305
306
307
                   tmpn5 : our_positive;
308
                   tmpn6
                           : our_positive;
: our_positive;
309
                   tmpn7
310
                   tmpn8 : our_positive;
311
                   tmpn9 : our_positive;
312
                   tmpna : our_positive;
313
314
315
          -- boolean variables --
                                   set/used --
316
317
                   tmpbs1 : boolean;
                   tmpbs2 : boolean;
318
                   tmpbs3 : boolean;
319
                   tmpbs4 : boolean;
320
                   tmpbs5 : boolean;
321
322
323
                   tmpbs6 : boolean;
                   tmpbs7 : boolean;
                   tmpbs8 : boplean;
324
325
                   tmpbs9 : boolean;
                   tmpbsa : boolean;
326
                   tmpbsb : boolean;
327
                   tmpbsc : boolean;
328
                   tmpbsd : boolean;
329
                   tmpbse : boolean;
                  type boolean_vector is array (our_integer range <>) of boolean; type boolean_matrix is array (our_integer range <>), of boolean; our_integer range <>) of boolean;
330
331
332
333
                  type boolean_3d
                                                is array (our_integer range <>,
334
                                                               our_integer range <>,
335
                                                               our_integer range <>) of boolean;
```

Table D-1 DURSYS Package Specification (concluded)

```
subtype boolean_array_10 is boolean_vector(1..10);
subtype boolean_array_3_3 is boolean_matrix(1..3, 1..3);
subtype boolean_array_3_3_3 is boolean_3d(1..3, 1..3, 1..3);
tmpbal,tmpba2,tmpba3: boolean_array_10;
 336
 337
338
339
 340
                                 tmpba4 : boolean_array_3_3;
tmpba5 : boolean_array_3_3_3;
 341
 342
343
                  -- fixed point variables --
 344
                                ted point variables {
  tmpfs0 : our_fixed;
  tmpfs1 : our_fixed;
  tmpfs2 : our_fixed;
  tmpfs3 : our_fixed;
  tmpfs5 : our_fixed;
  tmpfs6 : our_fixed;
  tmpfs7 : our_fixed;
  tmpfs7 : our_fixed;
  tmpfs8 : our_fixed;
  tmpfs8 : our_fixed;
  tmpfs9 : our_fixed;
 345
346
347
348
349
350
351
352
353
354
355
356
357
358
                 -- float variables --
                               set/used
tmprs0: our_float;
tmprs1: our_float;
tmprs2: our_float;
tmprs3: our_float;
tmprs4: our_float;
tmprs5: our_float;
tmprs6: our_float;
tmprs7: our_float;
tmprs8: our_float;
tmprs9: our_float;
tmprse: our_float;
tmprse: our_float;
tmprsc: our_float;
359
                                                          set/used --
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
                                 type
                                                   float_vector is array (our_integer range <>) of our_float;
                                                  float_matrix is array (our_integer range <>,
our_integer range <>) of our_float;
377
                                 type
378
379
                                                                                   is array (our_integer range <>,
                                                   float_3d
                                 type
                                                                                                            our_integer range <>,
our_integer range <>) of our_float;
380
381
                                subtype float_array_3_3 is float_matrix (1..3, 1..3);
subtype float_array_3_3_3 is float_3d (1..3, 1..3, 1..3);
subtype float_array_10 is float_vector (1..10);
tmpral,tmpra2,tmpra3: float_array_10;
tmpra4: float_array_3_3;
tmpra5: float_array_3_3;
382
383
384
385
386
387
                                 tmpra5 : float_array_3_3_3;
388
389
                                tempf : our_fixed;
390
391
                 -- string variables --
392
                                                               set/used --
393
                                 tmpcsl : our_string(1..10);
                                tmpcs2 : our_string(1..20);
tmpcs3 : our_string(1..30);
394
395
396
                                 tmpcs4 : our_string(1..10);
397
                                 tmpcs5 : our_string(1..10);
398
399
                 end oursys;
```

Table D-2. OURSYS Package Body Declarations

```
1 2
            -- Ada Real Time/Run Time Environment Test
                                                                                                        Aerospace Corporation --
   3
                    Test
                                       ADASYS
   4
             --
                    File:
             --
  67
                             REK, MJM, KMB
                                                        2/1/88
            --
  8
            -- Description:
  9
10
            -- XXXX This file contains the package body for OURSYS. It implements
11
12
            -- XXXX test statistic interface routines used by all ACPS tests. It
             -- XXXX references machine dependent routines ( see pragma interface
13
            -- XXXX statements within the package body) to access machine dependent--
14
           -- MENN performance statistics and read time to the microsecond level. -- MENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNERSKENNE
16
17
18
19
20
22
22
23
22
25
26
            -- XXXX Note: In the Ada version of DURSYS, statements followed by --X --
            -- EXXX
                                       are implementation dependent and may need to be changed --
            -- XXXX
                                       for each compiler and for each machine.
            -- XXXX
                                      Changes may also be required to the corresponding -- statements in the JOVIAL and FORTRAN versions of DURSYS.--
            -- MARR
            with ourdmp; use ourdmp;
            with ourtyp; use ourtyp;
           with ourspc; use ourspc;
27
28
29
            package body oursys is
            30
31
            -- data types used in the package body of oursys --
           32
333333444444444455555555556666
                subtype our_duration is our_float
subtype our_micro is our_float
subtype our_stat is integer
subtype our_time is time; --X
                                                                                              ;--X
                                                                                               ;--X
            -- ntosub - 0 of statistics returned by gstats that always increase --
                                  and for which the difference (end-start) will be output --
            -- ncpust - # of machine statistics set by gstats --
           -- mintim - minimum test period in seconds -- tclock - type of clock (Ada, operating system) to be read in --
                                   non-microsecond level tests.
                                   If the operating system clock is used, then the subtype --
                                  our_time should be set appropriately(for VAX/VMS , -- use our_float) and the function welock modified if necessary --
                 ncpust / constant our_integer (5.9; --*
                 type mach_stats is array (our_integer range l..ncpust) of our_stat; --*
                ntosub : constant our_integer : # 4; -- x mintim : constant our_duration := 1.0; -- x
                 type clock_type is (Ada, OS);
                 tclock : constant clock_type := Ada; --*
             63 64 65 66
           -- local test timing interface variables and procedures --
67
                                             - stores comparison of previous/saved test results --
           -- cstore
                                                  for optimization tests in which testop(3:3) = C --
68
                                                  The comparison is done by division --
```

Table D-2. OURSYS Package Body Declarations (Continued) 71 72 73 74 75 76 77 78 79 - stores comparison of previous/saved test results ---- estore for tests in which testcp(3:3) = S. --The comparison is done by subtraction ---- stotal - stores test results in totx arrays ---- tmpref - called by nooptm to reference global variables ---- tepset - called by test start procedures to set all --80 set/used global variables made visible by oursys --81 82 -- tstore - store test results, calls patets to get machine --83 dependent statistics and stotal to store results --84 85 -- gettim (tm) - non-Ada procedure that stores microsecond level --86 time into tm --87 88 -- gstats (stary, retcod) - non-Ada procedure which acquires non-Ada-run statistics and stores them into array stary --89 90 retcod is a status return code. The value 1 --91 92 93 signifies success -non-Ada procdure that stores an initial time for --microsecond level tests so that test durations ---- initim 94 95 can be computed to microsecond level accuracy --96 97 98 -- istats - non-Ada procedure to initialize non-Ada run -statistics --99 100 -- secs - non-Ada function that returns time in seconds --101 it is used if the value OS is assigned to tclock --ĪÖŽ 103 -- wclock - returns time (Ade, OS) based on value of tclock --104 105 procedure cstore; 106 107 procedure sstore; 108 109 procedure stotal; 110 111 112 procedure tmpref; 113 114 115 procedure tmpset; procedure tstore; 116 117 118 procedure gettim (tm : out our_micro); 119 procedure gstats (stary : out mach_stats; retcod : out our_integer); 120 121 procedure initim; 122 123 124 procedure istats; 125 126 127 function secs return our_time; function welock return our_time; 128 129 130 individual test statistic variables --131 132 -- testc - flag if set signals that the next test is to be compared --133 with a saved test --134 135

-- initok - set if time related routines have been executed once --

136 137

138

139

-- testom - name of test --

-- testep - name of test that compares results of two previous tests --

Table D-2. OURSYS Package Body Declarations (Continued)

1

```
140
141
       -- niters - counter for number of loop iterations executed in a test --
142
143
       -- niterl - contains niters for the previous test --
144
145
       -- niter2 - contains niters for the saved test --
146
147
                  - indicates whether test code has been executed at least once --
148
149
       -- ntstat - # of possible entries in tstaty --
150
151
152
       -- tstati - index to last entry stored into tstaty --
153
       -- tstaty - print buffer for test values inserted by t2valuatlvalu --
154
155
       -- tstatl - contains tstati for the previous test --
156
157
158
       -- tstat2 - contains tstati for the saved test --
159
       -- tstata - contains tstaty values for the previous test --
160
161
       -- tstatb - contains tstaty values for the saved test --
162
163
164
       -- strtim - time at start of test --
165
       -- endtim - time at end of test --
166
167
       -- strmic - microsecond level time at start of test --
168
169
       -- endmic - microsecond level time at end of test --
170
171
172
       -- elaptm - elapsed time of test in seconds --
173
       -- elapt1 - elapsed time for the previous test --
174
175
       -- elapt2 - elapsed time for the saved test --
176
177
178
       -- micbuf - buffer to hold microsecond elapsed times for a test --
179
       -- micind - index to last entry stored into micbuf --
180
181
       -- loopn - # of iterations in loop timed by loopn --
182
183
       -- loopsz - size of test loop overhead code(bytes) --
184
185
       -- looptm - elapsed time overhead of test loop for loopn iterations --
186
187
                  - elapsed time overhead in calling gettim for microsecond --
       -- tovr
                    level tests --
188
189
190
       -- ststat - machine dependent statistics at start of test --
191
192
       -- estat - machine dependent statistics at end of test --
193
194
195
       -- estatl - machine test statistics of the previous test --
196
197
       -- estat2 - machine test statistics of the saved test --
198
199
          initok : boolean := false;
          once : boolean := false;
testc : boolean;
200
201
202
          testcp : test_id;
203
204
          testnm : test_id;
205
206
          micind : our_integer
                                1= 0;
          niters : our_integer := 0;
207
208
          niterl : our_integer := 0;
209
          niter2 : our_integer := 0;
```

Table D-2. OURSYS Package Body Declarations (Continued)

```
tstati : our_integer :=.0;
210
211
212
              tstat1 : our_integer;
tstat2 : our_integer;
213
214
215
              ntstat : constant our_integer := 5;
              tstaty : array (our_integer range l..ntstat) of our_integer; tstata : array (our_integer range l..ntstat) of our_integer;
216
217
218
              tstatb : array (our_integer range 1..ntstat) of our_integer;
219
              strtim : our_time;
endtim : our_time;
220
221
222
              strmic : our_micro;
223
224
              endmic : our_micro;
225
              elaptm : our_duration;
226
227
              elapt1 : our_duration;
elapt2 : our_duration;
228
              loops : our_integer :=
                                                                 -- preset determined by AFIRST --
229
                                                       O;
                                                   0; -- preset determined by AFIRST -- 1.665000; -- preset determined by AFIRST -- 0.000000; -- preset determined by AFIRST --
230
231
232
233
              looptm : our_duration := tovr : our_duration :=
234
235
236
              type tvector is array (our_integer range 1..micitr) of our_duration;
              micbuf : tvector;
237
238
239
              ststat : mach_stats;
              estat : mach_stats;
              estatl : mach_stats;
240
241
              estat2 : mach_stats;
242
          -- accumulation test statistic variables --
243
244
          -- ntot
                        - # of test results saved before printing --
245
                           used as a dimension limit in tota arrays --
246
247
          -- totind - index of last entry in totx arrays --
248
249
250
          -- totalp - contains eleptm for all tests run --
251
252
          -- totitr - contains niters for all tests run --
253
         -- totmac - contains estat for all tests run --
254
255
256
          -- totom - contains testom for all tests run --
257
258
          -- totrun - contains tstatv for all tests run --
259
          -- totsti - contains tstati for all tests run --
260
261
                        : constant our_integer :=75;
              ntot
262
263
              totind : our_integer := 0;
264
             totelp : array (our_integer range l..ntot) of our_duration;
totitr : array (our_integer range l..ntot) of our_integer;
totmac : array (our_integer range l..ncpust,our_integer range l..ntot)
    of our_stat;
totnm : array (our_integer range l..ntot) of test_id;
totrun : array (our_integer range l..ntstat,our_integer range l..ntot)
    of our_integer;
totsti : array (our_integer range l..ntot) of our_integer;
265
266
267
268
269
270
271
272
273
          -- variables that are shared between tasks in microsecond level tasking tasts
274
         -- this occurs in tests where mstop is called in a different task than
275
276
          -- tinit, tstart, tstopm and tprint
277
278
              pragma shared(micind);
              pragma shared(strmic); --*
```

Table D-2. OURSYS Package Body Declarations (Continued)

Table D-3 DURSPC Package Specification

```
Aerospace Corporation --
             -- Ada Real time/Run time Environment Test
  234567
             --
                     Test:
                                          DURSPC
                     File:
                                                                                                                                                               --
                                                                                                                                                               --
                                                    2/1/88
             --
                                REK
             --
  8
                     Description:
  ğ
10
            -- XXXX This package defines datatypes and objects used in tests for
11
             -- XXXX access/enumeration/record types, representation specifications, --
12
            -- XXXX unchecked programming, shared variables and tasking features.
13
14
            -- XXXX It also defines procedures which set/reference the objects
             -- XXXX defined --
15
             16
            -- XXXX Note: In the Ada version of DURSPC, statements followed by --X --
             -- XXXX
                                          are implementation dependent and may need to be changed --
18
19
                                          for each compiler and for each target machine.
            -- XXXX
                                          Changes may also be required to the corresponding -- statements in the JOVIAL and FORTRAN versions of OURSPC.--
            -- XXXX
-- XXXX
             with system;
            with unchecked_conversion;
            with calendar; use calendar;
            with oursys; use oursys;
            package ourspc is
            30
            -- data types used in tests --
-- NAMESHANNAN NAMESHAN NAMESHANNAN NAMESHANNAN NAMESHANNAN NAMESHANNAN NAMESHANNAN NAMESHANNAN NAMESHANNAN NAMESHANNAN NAMESHANNAN NAMESHAN NAMES
31
32
33
34
35
36
37
38
39
                          type packed_boolean is new boolean;
                         type packed_bool_array is new boolean_vector (1..10);
                         type months is (Jan, Feb, Mar, Apr, May, Jun,
                                                           Jul, Aug, Sep, Oct, Nov, Dec);
                         type rep_months is new months;
40
                         type five_bit_integer is range 0..31;
41424444444444
                         type packed_months is new months;
                         type records is
                                record
                                      comp_il
                                                        : five_bit_integer;
                                      comp_i2
                                                       i five_bit_integer;
                                                        : packed_boolean;
                                      comp_b2
                                                       : packed_boolean;
490152355555555566123465
                                                        : packed_months;
                                      COMP_e
                                end record;
                          type packed_records is new records;
                          type rep_records is new records;
                         type variant_records(discr : months := Jun) is
                                record
                                      case discr is
                                            when jan =>
                                                                     : our_integer;
                                                  first
                                            when mer =>
                                                  second
                                                                     ur_float;
                                            when others =>
                                                                     ! five_bit_integer;
                                                  comp_il
                                                  comp_i2
                                                                     : five_bit_integer;
                                                  comp_bl
                                                                     : packed_boolean; packed_boolean;
66
                                                                     packed_months;
                                                   COMP_e
                                      end case;
```

Table D-3 DURSPC Package Specification (continued)

```
68
                   end record;
 69
70
71
72
                type packed_variant is new variant_records;
                type records_array is array(our_integer range 1..10) of records;
                type packed_records_array is array(our_integer range 1..10)
 73
74
75
                                                  of packed_records;
                type rep_records_array is array(our_integer range 1..10) of rep_records;
 76
77
                type Enumeration is (Ident_1,
                                         Ident_2,
Ident_3,
 78
 79
80
                                         Ident_4,
Ident_5);
 81
82
83
               subtype One_To_Fifty is our_integer range 1 .. 50;
               type String_10 is array(our_integer range 1..10) of character; type String_20 is array(our_integer range 1..20) of character; type String_30 is array(our_integer range 1..30) of character;
 84
 85
 86
87
 88
                type Record_Type;
 90
91
92
                type Record_Pointer is access Record_Type;
                type Record_Type is
 93
94
                   record
                       Pointer_Comp : Record_Pointer;
 95
                                     : Enumeration;
                       Enum_Comp
 96
97
                       Int_Comp
                                      : One_To_Fifty;
                       String_Comp
                                     : String_30;
 98
                end record;
 99
100
             101
             representation specifications for declared types(placed before object --
102
             declarations)
103
               pragma pack(packed_bool_array); --X
for packed_boolean use (0,1); --X
for packed_boolean'size use 1; --X
104
105
106
107
                for rep_months use (1,2,4,8,16,32,64,128,
108
109
                                        256,512,1024,2048);
110
                for rep_months'size use 12;
111
112
                pragma pack(packed_records);
               pragma pack(packed variant);
pragma pack(String_10); --X
113
114
115
                pragma pack(String_20); --*
116
                pragma pack(String_30); --*
117
118
                for five_bit_integer'size use 5; ~~X
119
                for packed_months'size use 4;
                                                       ---
120
121
122
123
        -- define rep-records to be sixteen bits in size --
-- align rep-records on a 16 bit boundary --
                for rep_records use
124
125
126
                   record at mod (16 / system.storage_unit); --*
                                  at 0 range 0..4; --x
                       comp_il
                                  at 0 range
                                                  5. .9;
                       comp_i2
                                                           ---
127
128
129
                                   at 0 range 10..10;
at 0 range 11..11;
                       comp_bl
                                                           --X
                                                           ---
                       comp_b2
                                   at 0 range 12..15;
                       COMP &
130
                   end record;
131
132
                for rep_records_array'size use 10 x 16; --x
133
134
```

Table D-3 OURSPC Package Specification (continued)

```
135
136
             -- unchecked conversions --
137
              138
139
                         function float_to_integer is new unchecked_conversion(
                         our_float,our_integer); --x
function records_to_integer is new unchecked_conversion(
140
141
142
                                                                               rep_records,our_integer);
143
144
              1/5
             -- test constants --
146
             147
148
             -- aggregate constants used in array, record tests and to initialize --
149
             -- array, record variables --
150
151
152
                         string_30_con : constant String_30 := "123456789012345678901234567890";
153
                         record_type_con
                                                             : constant record_type := (null, Ident_1,50,
                                                             string_30_con);
: constant records := (1,1,false,true,Jan);
154
155
                         records_con_1
156
                         records_con_2
                                                             : constant records := (2,2,false,false,Feb);
                         records_con_3 : constant records := (3,3,true,false,Mar);
pack_records_con_1 : constant packed_records := (2,2,false,false,Feb);
157
158
159
                         pack_records_con_2 : constant packed_records := (1,1,false,true,Jan);
                         pack_records_con_3 : constant packed_records := (3,3,true,false,Mar);
rep_records_con_1 : constant rep_records := (3,3,true,false,Mar);
160
161
                        rep_records_con_2 : constant rep_records := (2,2,false,false,feb);
rep_records_con_3 : constant rep_records := (1,1,false,true,Jan);
variant_con_1 : constant variant_records := (Jun,1,1,false,true,Jan);
variant_con_2 : constant variant_records := (Jun,2,2,false,false,Feb);
162
163
164
165
166
                         pack_variant_con_1 : constant packed_variant := (Jun,2,2,false,
167
                                                                                                                        false, Feb);
168
                         pack_variant_con_2 : constant packed_variant := (Jun,1,1,false,
169
                                                                                                                       True, Jan);
                                                             constant boolean_array_10 := (1..10 => true);
constant boolean_array_10 := (1..10 => false);
constant packed_bool_array := (1..10 => true);
                         bool_array_con_1
bool_array_con_2
pack_bool_con_1
170
171
172
173
174
                         pack_bool_con_2
                                                              : constant packed_bool_array := (1..10 => false);
175
                                         - delay time used in MASTER task timed entry calls. It
             -- max_time
176
                                            contains the maximum time that a task test should take
177
                                            in seconds.
178
                         max_time : constant duration := 60.0; --*
179
180
             -- time_slice_interval - the forced time slice interval used in tasking
181
             --
                                                              tests. It should be consistent across Ada
                                                             run-time environments for each target machine (for the VAX = .01secs)
182
183
184
                         time_slice_interval : constant duration := 0.01; --*
185
186
             -- driver_priority - priority of driver tasks in tasking tests --
                                                  - priority of master tasks in tasking tests --
187
             -- master_priority
188
                                                       priority of slave or master created tasks in
             -- slave_priority
189
                                                        tasking tests --
190
                         driver_priority : constant our_integer := 3; --x
master_priority : constant our_integer := 2; --x
191
192
193
                         slave_priority : constant our_integer := 1; --x
194
195
             196
             -- procedure definitions used by oursys --
197
                   —— RENEWED BEREEFE BEREFE BEREEFE BEREEFE BEREEFE BEREEFE BEREEFE BEREEFE BEREEFE BERE
198
199
                     sposet - sets all ourspooshr# shared global variables to oursys.tmp#
200
                                        equivalents and also sets ourspc.tmpx variables.
201
```

Table D-3 BURSPC Package Specification (continued)

```
202
            sporef - references all ourspo.shr*, tmp* global variables
203
204
                procedure speset;
205
206
                procedure spcref;
207
208
209
         210
         -- global variable definitions --
211
         212
213
         -- non-shared record structure variables
214
215
216
217
                tmper0, tmper1, tmper2, tmper3, tmper4, tmper5,
                tmper6, tmper7, tmper8, tmper9, tmpera
tmpes0, tmpes1, tmpes2, tmpes3, tmpes4, tmpes5,
                                                                       : rep_months;
218
                tmpes6, tmpes7, tmpes8, tmpes9, tmpesa
                                                                       : months:
                tmppp0,tmppp1,tmppp2,tmppp3,tmppp4,tmppp5,
tmppp6,tmppp7,tmppp8,tmppp9,tmpppa
219
220
                                                                       : record_pointer;
221
222
223
224
225
                tmppr0, tmppr1, tmppr2, tmppr3, tmppr4, tmppr5,
                tmppr6, tmppr7, tmppr8, tmppr9, tmppra
                                                                       : record_type;
                tmprc0, tmprc1, tmprc2, tmprc3, tmprc4, tmprc5,
                tmprc6,tmprc7,tmprc8,tmprc9,tmprca
tmprp0,tmprp1,tmprp2,tmprp3,tmprp4,tmprp5,
                                                                       : records:
226
227
228
229
                tmprp6, tmprp7, tmprp8, tmprp9, tmprpa
                                                                       : packed_records;
                tmprr0,tmprr1,tmprr2,tmprr3,tmprr4,tmprr5,
tmprr6,tmprr7,tmprr8,tmprr9,tmprra
                                                                       : rep_records;
                tmpvs0, tmpvs1, tmpvs2, tmpvs3, tmpvs4, tmpvs5,
230
                tmpvs6, tmpvs7, tmpvs8, tmpvs9, tmpvsa
                                                                       : variant_records;
231
                tmpvp0, tmpvp1, tmpvp2, tmpvp3, tmpvp4, tmpvp5,
232
                tmpvp6, tmpvp7, tmpvp8, tmpvp9, tmpvpa
                                                                       : packed_variant;
233
234
         -- non-shared arrays --
235
236
                tmpcp1,tmpcp4,tmpcp5 : String_10;
                tmpcp2 : String_20;
tmpcp3 : String_30;
237
238
239
240
                tmpras : records_array;
241
242
                tmprap : packed_records_array;
                tmprar : rep_records_array;
243
244
                tmpbp1,tmpbp2,tmpbp3 : packed_bool_array;
245
246
         -- shared integer variables ( all variables = 3 except shris0 which is 0) --
247
                                set/used -
248
249
         -- task test work counter --
250
                total_work : our_integer;
pragma shared(total_work);
251
                shris0 : our_integer;
shris1 : our_integer;
shris2 : our_integer;
252
253
254
                shris3 : our_integer;
shris4 : our_integer;
255
256
257
                shris5 : our_integer;
258
259
                shris6 : our_integer;
shris7 : our_integer;
260
                shris& : our_integer;
                shris9 : our_integer;
shrise : our_integer;
261
262
                shrisb : our_integer;
shrisc : our_integer;
shrisd : our_integer;
shrise : our_integer;
pragma shared(shris0);
263
264
265
266
267
268
                pragma shared(shrisl);
```

Table D-3 OURSPC Package Specification (concluded)

```
269
270
271
272
                    pragma shared(shris2);
                    pragma shared(shris3);
                                                        --¥
                    pragma shared(shris4);
                                                        --×
                   pragma shared(shris5);
                                                        --×
273
274
275
                    pragma shared(shris6);
                                                        --X
                    pragma shared(shris7);
                                                         --X
                    pragma shared(shris8);
                                                        --X
276
277
278
279
280
281
                                                        --×
                    pragma shared(shris9);
                    pragma shared(shrisa);
                                                        --×
                    pragma shared(shrisb);
                                                        --×
                    pragma shared(shrisc);
                                                        --¥
                    pragma shared(shrisd);
                                                        --×
                    pragma shared(shrise);
282
283
          -- variables of type time and duration --
284
                   time_0, time_1, time_2, time_3, time_4, time_5
time_6, time_7, time_8, time_9, time_a : time;
duration_0, duration_1, duration_2, duration_3 : duration;
duration_4, duration_5, duration_6, duration_7 : duration;
duration_8, duration_9, duration_a : duration;
285
286
287
288
289
290
          end ourspc;
```

Table D-4 OURTYP Package Specification

```
-- Ada Real Time/Run Time Environment Test
                                                                                             Aerospace Corporation ~~
                 Test:
                                  OURTYP
                 File:
                                                                                                                                    --
 67
                                        2/1/88
                                                                                                                                    --
                         ARA, REK
          --
                                                                                                                                    --
 8
          --
                Description:
 9
10
                **** This package declares compiler specific non-standard integer --
          _-
11
12
13
                *** and floating point data types . It
                XXXX also declares global variables with these datatypes that are -- XXXX used by relevant benchmark programs. --
14
15
          with system; use system; with oursys; use oursys;
16
17
          package ourtyp is
18
19
                subtype our_short_integer is short_integer subtype our_short_short_integer is short_short_integer subtype our_long_float is long_float is long_long_float
20
21
22
                                                                                                                  ;--×
23
24
25
                                        - initialize the non-32 bit standard variables --
          -- typset
26
27
28
29
30
33
33
35
35
37
                                       - reference the non-32 bit standard variables --
          -- typref
                 procedure typset;
                procedure typref;
                             : our_short_integer;
: our_short_integer;
: our_short_integer;
                 tsi0
                 tsil
                 tsi2
                            our_short_integer;
our_short_integer;
our_short_integer;
our_short_integer;
                 tsi3
                 tsi4
tsi5
38
39
40
41
                 tsi6
                             : our_short_integer;
: our_short_integer;
                 tsi7
                 tsi8
42
43
                             : our_short_integer;
                 tsi9
                 tsia : our_short_integer;
type s_int_ary_10 is array(our_integer range 1..10)
of our_short_integer;
type s_int_ary_10_10 is array(our_integer range 1..10,
44
45
46
47
                 our_integer range 1..10) of our_short_integer;

pragma pack(s_int_ary_10); --x

pragma pack(s_int_ary_10_10); --x

tsial,tsia2,tsia3 : s_int_ary_10;

tsia4 : s_int_ary_10_10;
48
49
50
51
52
53
                 tssi0 : our_short_short_integer;
                           pur_short_short_integer;
our_short_short_integer;
54
55
56
57
58
                 tssil
                 tssi2
                           cor_short_short_integer;
our_short_short_integer;
our_short_short_integer;
our_short_short_integer;
our_short_short_integer;
                 tssi3
                 tssi4
                 tssi5
59
                 tssi6
60
61
62
63
64
65
                 tssi7
                 tssi8 : our_short_short_integer;
tssi9 : our_short_short_integer;
tssia : our_short_short_integer;
type s_s_int_ary_10 is array(our_integer range 1..10)
                 66
```

Table D-4 OURTYP Package Specification (concluded)

```
pragma pack(s_s_int_ary_10_10); --x
pragma pack(s_s_int_ary_10); --x
tssial,tssia2,tssia3 : s_s_int_ary_10;
tssia4 : s_s_int_ary_10_10;
 68
 69
70
 71
72
73
74
75
76
77
78
             t1f0
                     : our_long_float;
                    : our_long_float;
: our_long_float;
: our_long_float;
             tlfl
             t1f2
            t1f3
 79
 80
 81
82
 83
 84
 86
87
            type l_flt_ary_10_10 is array(our_integer range 1..10,
            our_integer range 1..10) of our_long_float; tlfal,tlfa2,tlfa3 : I_flt_ary_10; tlfa4 : I_flt_ary_10_10;
 88
 89
90
91
92
93
94
            95
 96
97
 98
 99
100
101
            103
104
105
106
107
108
109
110
        end ourtyp;
```

Table D-5 DURDMP Package Specification

```
-- Ada Real Time/Run Time Environment Test
12345678901234567890123456789012345
                                                                                         Aerospace Corporation --
                Test:
                                 DURDMP
                File:
          --
                        REK
                                  2/1/88
                Description:
         -- XXXX This package defines procedures used by test programs to --
-- XXXX dump the contents of various global variables defined by DURSYS--
-- XXXX If global variable DEBUG is DFF, then no print is generated --
         with OURSYS; use OURSYS; with OURSPC; use OURSPC; package OURDMP is
         -- dumpb(num,al,a2,a3,a4,a5) - print a record of its boolean arguments -- - num specifies the number of arguments to print --
          -- dumpi(num,al,a2,a3,a4,a5,a6,a7,a8,a9,a10) -
                                              - print a record of its integer arguments -- - num specifies the number of arguments to print --
         --
          -- --
         -- dumpr(num,al,a2,a3,a4,a5) - print a record of its real arguments -- - num specifies the number of arguments to print --
                                                          - print global test variables tmpx --
         -- dumpt
               procedure dumpb(num : in our_integer;al,a2,a3,a4,a5 : in boolean);
procedure dumpi(num,al;a2,a3,a4;a5,a6,a7,a8,a9,a10 : in our_integer);
               procedure dumpr(num : in our_integer;al,a2,a3,a4,a5 : in our_float);
               procedure dumpt;
          end DURDMP:
```

Table D-6 MATHFUN Package Specification

```
-- Ada Real Time/Run Time Environment Test
                                                                                                                               Aerospace Corporation --
  12345
              --
                       Test:
                                                MATHFUN
                       File:
              --
                                                                                                                                                                                     --
              --
                                   REK
                                                  2/1/88
  89
              --
                      Description:
              --
10
              -- **** This file makes standard math functions used by the WHETSTONE
             -- XXX Inis file makes standard math functions used by the WHEISTUNE
-- XXXX benchmark available to test programs. This is done by
-- XXXX instantiation of generic program libraries with the type
-- XXXX our_float. The names of any library routines which are different
-- XXXX from those used in the WHETSTONE benchmark (sin,cos,arctan,sqrt,
-- XXXX exp,ln) should be renamed
112
13
14
15
16
17
18
19
22
22
22
24
             with math_lib;
MITH OURSYS; USE OURSYS;
PACKAGE MATHFUN_IS
                     package ourfloat_lib is new math_lib(our_float); --x
use ourfloat_lib;
function arctan(x : our_float) return our_float renames atan; --x
function ln(x : our_float) return our_float renames log; --x
              function END MATHFUN;
```

APPENDIX E

ACPS TEST COMPARISON TOOL

The ACPS test comparison tool automatically compares ACPS compile-time and run-time test statistic files and generates formatted outputs of the input files and of the comparison results. The tool consists of two programs which compare compile-time and run-time test results. The programs were developed using a VAX/VMS host and were designed to process ACPS test result output specific to VAX/VMS. Appendix C describes the VAX/VMS command procedures used to execute the tool. The programs are written in FORTRAN 77 and use the VAX FORTRAN INCLUDE statement for reference to FORTRAN common block definitions. The input/output files are read/written with FORTRAN formatted read/write statements. The target operating system dependencies are separated into separate common block include files and subroutines. The input/output logical unit assignments for the tools are shown in Tables E-1 and E-2.

This appendix describes the format and target operating system dependencies of all comparison tool input and output files. It also describes the required order in which test records must appear within the input test statistic files. The discussion is illustrated with sample input and output files generated from execution of the VAX/VMS version of the ACPS using command procedures described in Appendix C.

E.1 ACPS COMPILE-TIME TEST RESULT COMPARATOR (CCOMP)

E.1.1 Compile-Time Test Result Input File Formats

CCOMP takes as input two files containing compile-time generated test records augmented by compiler and linker diagnostic and informational messages. Table E-3 shows output generated using DEC VAX Ada compiler and Table E-4 shows output generated using the ECSPO JOVIAL compiler. The output contains two types of records that are processed by the comparison tool:

- a. operating system-independent test records which begin with the symbol < in column 1</p>
- b. operating system-dependent statistic records for VAX/VMS, which are generated by the DCL SHOW STATUS command

The output is divided into the following five sections: compilation test records, linkage edit test records, source module size test records, object module size test records, and executable module test records. These sections are formatted as follows:

a. Compilation Test Record Section Format

The compilation test record section contains records in the following order:

where:

FILE-NAME - is either the name "system" or an ACPS file name whose syntax is described in Section 6.1. The name "system" is used to represent the compilation of the language-specific test support software.

b. Linkage Edit Test Record Section Format

The linkage edit test record section format consists of records in the following order:

<start links
<FILE-NAME

 DCL SHOW STATUS RECORD 1
 DCL SHOW STATUS RECORD 2
 o
 o
 o
<FILE-NAME
 DCL SHOW STATUS RECORD 1
 DCL SHOW STATUS RECORD 2
<end links</pre>

where:

FILE-NAME - is an ACPS filename whose syntax is described in Section 6.1.

c. Source Module Size Test Record Section Format

The source module size test record section contains records in the following order:

<start source size
<FILE-NAME #
 o
 o
<FILE-NAME #
<end source size = ##</pre>

where:

- FILE-NAME is either the name "system" or an ACPS filename whose syntax is in Section 6.1. The name "system" is used for all source files in the language-specific test support software.
 - # is the source module size. For VAX/VMS, it is expressed in 512 byte disk blocks.
 - ## is the total size of source modules. For VAX/VMS, it is expressed in 512 byte blocks.

d. Object Module Size Test Record Section Format

The object module size test record section contains records in the following order:

where:

- FILE-NAME is either the name "system" or an ACPS filename whose syntax is in Section 6.1. The name "system" is used for all object files in the language-specific test support software.
 - # is the object module size. For VAX/VMS, it is expressed in 512 byte disk blocks
 - ## is the total size of object modules for VAX/VMS, it is expressed in 512 byte blocks.

e. Executable Module Size Test Record Section Format

The executable module size test record section contains records in the following order:

where:

FILE-NAME - is an ACPS filename whose syntax is section in Section 6.1.

- is the executable module size. For VAX/VMS, it
is expressed in 512 byte disk blocks

- is the total size of executable modules. For VAX/VMS, it is expressed in 512 byte blocks.

E.1.2 User Input

CCOMP interacts with the user by requesting user responses to the following questions:

- a. What title should be placed on the comparison output listings?
- b. Which host operating system was used to generate the input files? The tool currently only supports output generated by VAX/VMS.

E.1.3 CCOMP Output File Formats

CCOMP generates two types of output files: one containing formatted versions of the input files and one containing the results of the comparison of the input files. The formats of these files are as follows:

a. Formatted Input File Format

Figures E-3 and E-4 contain formatted output files generated by CCOMP from the VAX Ada and ECSPO JOVIAL compilation statistics shown in Figures E-1 and E-2. As can be seen from these figures, the CCOMP outputs for different test languages have the same content and format. The outputs are divided into five sections: compilation statistics, linkage edit statistics, source module size statistics, object module size statistics, and executable or load module size statistics. The heading for each output shows the logical unit number (e.g., UNIT 8 in Figure E-3) of the input file from which the output is derived.

The compilation and linkage edit outputs have identical formats. The outputs are in tabular form. The separate entry "totals" is used to contain the summation by column of the values of all other entries in the table. These outputs are operating system-dependent since they contain statistics generated by the DCL SHOW STATUS command. The meanings of the output headings are as follows:

FILE(S) - the name of a single file or group of files. The name "system" corresponds to the files associated with the language-specific test support software

WALL-CLOCK - the elapsed time expressed in units of seconds

CPU-TIME - the VMS CPU time statistics expressed in units of seconds

BUFIO - the number of VMS buffered input/output operations

DIRIO - the number of VMS direct input/output operations

PAGE-FAULTS - the VMS working set page fault statistic

The source, object, and executable module size statistics section have identical format and contain data which is operating system-independent (albeit obtained from operating system-dependent commands). The file sizes are expressed in units of 512 byte disk blocks.

b. Comparison Result File Format

The comparison result file contains output that compares the compile-time statistics from the two input files supplied to CCOMP. Table E-7 shows an example comparison output file for the input files shown in Tables E-3 and E-4. The output comparison results are presented in fractional form as a ratio of the test statistic from input logical unit 8 divided by the corresponding test statistic from input logical unit 7. The file names appearing on the output are the same as those appearing on logical unit 8. Test statistics that appear on one input file but not on the other are not compared and do not affect the comparison output. The output is divided into six sections: the user/tool dialogue, the compilation comparison, the linkage edit comparison, the source module size comparison, the object module size comparison, and the load or executable module size comparison.

The first page of Table E-7 shows the dialogue between the user and CCOMP. User responses follow the record containing the prompt character < while CCOMP requests precede the prompt record.

The comparison output sections are in the same format as the corresponding sections in the formatted input file outputs described above, the only difference being that the tabular data contains fractional comparisons between corresponding input file statistics. For example, in the compilation comparison output, the total compile time was 5% less in Ada than in JOVIAL even though the number of page faults generated was 1.8 times greater in Ada than in JOVIAL.

E.2 ACPS RUN-TIME RESULT COMPARATOR (CEXEC)

E.2.1 Run-Time Test Result Input File Formats

CEXEC takes as input two files containing run-time generated test records optionally augmented by target operating system-dependent records that measure the program loading time as well as the program execution time. Tables E-8 and E-9 show sample output generated by run-time execution of ACPS tests compiled by the VAX Ada compiler and the ECSPO JOVIAL compiler, respectively. As can be seen from these outputs, the run-time statistic files generated by different ACPS test languages have identical formats. The run-time output file contains two types of records that are processed by CEXEC:

a. Optional target operating system-dependent records. These are optionally processed based on user response to questions posed by CEXEC. Their intent is to permit measurement of the program loading time of the test overhead programs and of the entire test suite.

Three records are generated by the ACPS VAX/VMS run time execution command procedure using the DCL SHOW STATUS command. The records appear immediately before and after the overhead test record and also after the last test record as shown in Table E-8.

b. Test support-software test records. These are generated by the language-specific test support software and may contain operating system-dependent statistic fields. They begin with the symbol < preceded by either one or two blanks (dependent upon how Ada compilers generate output to the standard output file. For both FORTRAN and JOVIAL, the < symbol is preceded by a single blank).

Each test record contains two logical records. The first logical record contains the test name, the elapsed time, and operating system dependent records as follows:

Column 2	<pre>Contents </pre>
3-9	Test name (described in Section 6.2).
10-19	Elapsed time expressed in units of seconds to microsecond level accuracy.
20-29	Number of test iterations (an integer). The field is zero for microsecond level tests.

- 30-119 Nine target operating system-dependent statistics expressed as integers. For VAX/VMS, the statistics appear in the following order:
 - 1. CPU time expressed in units of 10 ms
 - 2. number of page faults
 - 3. number of buffered input/output operations
 - 4. number of direct input/output operations
 - 5. number of open files
 - 6. PO virtual address space used expressed in bytes
 - 7. Pl virtual address space used expressed in bytes
 - 8. process page count
 - 9. global page count

The second logical record contains data dependent on the type of the test. The record contains up to six 10-column fields. The first field always specifies the number of data fields that follow. For nonmicrosecond level tests (e.g., AA00000), the first data field always contains the size of the compiled test code in bytes. Subsequent data fields contain test-specific statistics that are only defined in the test source code prologue. If a data field contains a -1, CEXEC ignores the field since the statistic represented involves a language feature that is not supported by the corresponding compiler (e.g., VAX Ada run-time tests do not include the size of the compiled test code, since the VAX Ada compiler does not support the address attribute for labels). For microsecond level tests (e.g., AAM0000), the data records correspond to the maximum and median elapsed time measurements made and are expressed in units of microseconds.

There are five types of test records: informational tests, microsecond level tests, self-measured overhead tests; optimization comparison tests, single iteration tests, and multiple iteration tests. Tables E-8 and E-9 contain examples of each type of test record.

The informational test records are identified by name (i.e., I in character position three) and contain informational rather than execution performance statistics. The data in these records is used to describe the size of data objects and data types, and the distribution of work in task loading tests. The data is entirely contained in the second logical record. Records of this type are not compared by CEXEC but are written to the corresponding formatted output file.

The microsecond level tests are identified by test name (i.e., M or N in character position three) and contain zero in the test iteration field.

The self-measured overhead test records are identified by name (i.e., S in character position three) and are records in which the test overhead has been subtracted from every statistic in the first and second logical records. The test record appearing immediately before the self-measured test record corresponds to the same test with the test overhead included in the statistics.

The optimization comparison test record is also identified by name (i.e., C in character position three) and corresponds to the comparison of hand-optimized tests to compiler-optimized tests. All statistics are fractional and are computed as a ratio of 100 times the compiler-optimized test statistics divided by the corresponding hand-optimized test statistics. Values of 100 correspond to statistics that are the same (see the record for AOCO508 in Figure E-6 which compares AOOO508 to AOOO507).

The single iteration test record has a one in the test iteration field of the first logical record (columns 20-29). It corresponds to execution of the first iteration through the test loop. The multiple iteration test record is used for the remaining iterations of the test loop. For this type of test record, the second logical record is blank and contains no data fields. All code and data object sizes for the multiple iteration tests appear in the second logical record of the corresponding single-iteration test. (e.g., see test JA00000 in Table E-9.

As shown in Table E-8, the run-time statistic files input to CEXEC also contain diagnostic and informational messages generated by the test support software. These messages are preceded by four asterisks (*) and are output by the test support procedure tfail. The messages that can be generated are as follows:

**** Elapsed time in above test is too short (< 100 times clock granularity).

This message occurs if test durations are not long enough to ensure that the error in elapsed time measurements is less than 1%.

For corrective action, the user can increase the corresponding test iteration count.

**** Test <test-name> fails - incorrect value computed.

This message occurs in self-monitoring tests that compare computed values against expected values.

For corrective action, the user should examine the test source and compiled code to determine the cause of the error.

**** Test <test-name> fails - incorrect path taken.

This message occurs in self-monitoring tests when a test statement is unexpectedly executed.

For corrective action, the user should examine the test source and compiled code to determine the cause of the error.

**** Test <test-name> fails - error in reading operating system statistics.

This message occurs in VAX/VMS test support software whenever the system service SYS\$GETJPI returns an error condition.

This message should not be generated and signals that a fatal error has occured in the test support software.

**** Test <test-name> fails - comparison tests are improperly used.

For corrective action, the user should make sure that the test name conforms to the test naming conventions described in Section 6 and that the test support software was also used properly. Optimization comparison tests are discussed in Section 4.3.

**** Test <test-name> fails - difference tests should have the same number of iterations as the loop overhead test.

This message occurs when test names or self-measuring overhead tests are improperly used.

For corrective action, the user should make sure the test name follows the test naming convention described in Section 6 and that the test coding conventions described in Section 4 are followed.

**** Test <test-name> fails - pragma priority is not supported with enough distinct priority levels.

This message occurs in tasking tests that require three different task priority levels to work properly.

No corrective action can be taken.

**** Test <test-name> fails - task test does not complete within ourspc.max time seconds.

This message is generated in task loading test drivers which assume that the test can complete within a specified time (60 sec for DEC VAX).

For corrective action increase ourspc.max_time. If this does not correct the problem, then the run-time environment probably does not support preemptive task scheduling and no further corrective action is recommended.

**** Test <test-name> fails - change of representation between objects does not preserve the values.

This message is generated in self-monitoring tests which check the results of operations which change representation between record objects.

For corrective action, the user should examine the source and compiled code to determine the cause of the error.

**** Test <test-name> fails - unchecked conversion incorrectly converted a floating point value (3.0) to an integer value (3).

For corrective action, examine the source and compiled code to determine the cause of the error.

**** Test <test-name> fails - constraint error

**** Test <test-name> fails - numeric error

**** Test <test-name> fails - program error

**** Test <test-name> fails - storage-error

**** Test <test-name> fails - tasking-error

**** Test <test-name> fails - nonpredefined exception

The above messages are generated in Ada type E tests that fail as stated in the message.

For corrective action, the user should examine the test source code for the cause of the error.

All of the above messages are ignored by CEXEC.

E.2.2 User Input

CEXEC is an interactive program that requests information from the user to direct processing of the input files and to affect how the output files are generated. CEXEC requests user responses to supply the following information:

- a. Whether or not to generate a maximum or minimum test result file.
- b. Whether or not to process operating system status records. These records should not be processed in executions involving maximum or minimum test result files.
- c. Whether or not to process operating system-dependent statistics in test records.

- d. Which target operating system was used. This request is only made if operating system-dependent data are to be processed. Currently, CEXEC only supports the VMS operating system.
- e. Whether or not to subtract the operating statistics obtained from the test overhead record from corresponding statistics in subsequent tests.
- f. The title to be placed on all output files generated by CEXEC.
- g. The minimum test execution time. CEXEC generates an error message in the formatted output file for multiple iteration tests if the test execution time exclusive of test loop overhead is less than the minimum time specified by the user.

The first page of Tables E-12 and E-15 show sample dialogues between the user and CEXEC. The CEXEC prompt record contains a single < symbol. CEXEC requests for information immediately precede the prompt record while user responses follow the prompt record.

E.2.3 CEXEC Output File Formats

CEXEC generates two types of output files: one containing formatted versions of the input files and one containing the results of the input file comparisons. There are two formats for each type of output: one with and one without target operating system dependent information. The formats of these two types of output files are as follows:

a. Formatted input file format. Tables E-10 and E-11 show formatted input files generated by CEXEC from the VAX Ada and ECSPO JOVIAL input files shown in Tables E-8 and E-9. The outputs shown contain only operating system-independent statistics and are generated by compiler-independent source code within the language-specific test support software. As can be seen from these tables, E-10 and E-11, the format and content of these outputs are the same for each test language. The listing heading shows the test language associated with the output and the logical unit numbers [e.g., unit (8) in Table E-10] of the input file from which the output is derived. The output is presented in tabular form with one entry per test record. An "elapsed time too short" error message can appear in the output whenever the elapsed time in the immediately preceding multiple iteration test is less than a user specified minimum value. The meanings of the column headings are as follows:

TEST-ID - Contains the name of the test whose syntax is described in Section 6.2.

WALL-TIME - Contains the elapsed test execution time in seconds. The effect of the test loop overhead (tests AA00000, AAM0000) has been removed from all tests except the optimization comparison (e.g., AOC0508) and self-measuring overhead (e.g., AFS5307) tests.

ITERATIONS - Contains the number of test loop iterations executed.

RUN STATISTICS - Contains five entries corresponding to the data fields appearing in the second logical record of each test input record. An entry containing 0* indicates that the data field does not apply to this test. The effect of the test loop overhead has been removed for microsecond level tests (e.g., AGM0008) and for single-iteration tests.

Tables E-13 and E-14 show formatted input files generated by CEXEC that also contain VAX/VMS operating system statistics. Each output test record contains two logical records: the first record contains nonoperating dependent data and the second record contains operating system-specific data. The effect of the test loop overhead is optionally subtracted from the operating system-dependent statistics. The meanings of the column headings for VAX/VMS statistics are as follows:

CPUTIM - the VMS CPU time statistic expressed in units of 10 ms

PAGEFLT - the number of working set page faults

BUFIO - the number of buffered input/output operations

DIRIO - the number of direct input/output operations

FILCNT - the number of open input/output files

POSPACE - the amount of PO virtual address space used

PISPACE - the amount of Pl virtual address space used

PPGCNT - the process page count

GPGCNT - the global page count

b. Comparison result file format. The comparison result file contains output that compares the run-time statistics contained on the two input files (e.g., Tables E-8 and E-9) read by CEXEC. Test statistics that appear on one input file but not on another are not compared and do not affect the comparison output. The output comparison results are presented in fractional form as the ratios of the test statistics from input on logical unit 8 divided by test statistics from input on logical unit 7. The effect of the number of iterations is taken into account in both the elapsed time and CPU time (if present) statistics. The test names appearing on the outputs are the same as those contained on logical unit 8.

Table E-15 shows a comparison output file that does not contain target operating system-specific data. The first page shows the tool/user dialogue which causes suppression of processing of operating system-dependent records and fields. The meanings of the output headings are the same as for the formatted input file output shown in Table E-10 and described previously. Test comparison totals, which appear at the end of the output, present accumulated comparisons of all but the test overhead tests and the optimization comparison tests. The meanings of the entries appearing in the test total output are as follows:

micro - microsecond level test totals

1 iter - single-iteration test totals

diff. - self-measuring overhead test totals

Table E-15 shows a comparison output file that contains VMS status record and VMS statistic field comparisons. The first page of the output shows the dialogue between the tool and user that selected the form of output. The rest of the output is divided into three sections: benchmark test comparisons, SHOW STATUS statistics, and SHOW STATUS comparisons.

The benchmark test comparison section contains the individual test comparisons. The meanings of the output headings are the same as for the formatted input file output shown in Table E-13 and described above. The results are expressed as the ratio of the processed statistics from input logical unit 8 divided by the corresponding processed statistics from input logical unit 7. The values of the processed statistics used are contained in the formatted input file outputs shown in Tables E-13 and E-14. Test comparison totals appear at the end of the output. The entries have the same meaning as those in Table E-12 which were previously described.

The VMS SHOW STATUS statistics section displays the result of processing the VMS SHOW STATUS records that are inserted into the run-time data file to measure both the program loading and test execution time of the overhead test and of the entire test suite. The meanings of the output headings are as follows:

I/O-UNIT - input logical unit containing the data

NUMBER - specifies the pair of status records processed as follows:

- a. corresponds to the first pair which measure the execution and program loading time of the overhead test
- b. corresponds to the second pair which measure the execution and program loading time of all other tests executed

WALL-CLOCK - elapsed time in seconds

CPU-TIME - VMS CPU time statistic in seconds

BUFIO - number of buffered input/output operations

DIRIO - number of direct input/output operations

PAGE-FAULTS - number of working set page faults

The VMS SHOW STATUS comparison section compares the results contained in the SHOW STATUS statistics section for corresponding statistic records contained on input logical units 8 and 7. The comparison results are expressed as the ratios of the test statistics from logical unit 8 divided by the corresponding test statistics on logical unit 7. The meanings of the output column headings are the same as those in the SHOW STATUS statistics section previously described.

E.2.4 Measurement of Test Repeatability

For target machines for which the run-time environment cannot be constrained to permit repeatable measurements of test execution times, CEXEC can be used to measure the repeatability or variance of test statistics for all ACPS tests. By responding with maximum or minimum to the first CEXEC prompt which is shown in Table E-15, the user can cause CEXEC to generate a file (on unit 12) containing the maximum or minimum test statistics from corresponding tests in the two test result input files. The user should keep a set of maximum and minimum test result files for each type of ACPS test execution set. Each time a new set of test results is generated, CEXEC can then be used to update the corresponding maximum and minimum result files. This process should be repeated until all maximum and minimum values do not

change. The maximum and minimum result files can then be compared by CEXEC to determine the test variance. Only corresponding maximum or minimum result files of different test types should be compared.

E.3 TEST NAME AND FILE NAME ORDER

In order to compare corresponding test records in test statistic input files, each ACPS comparison program assumes that test records (i.e., those records prefixed by the symbol <) appear in a sorted order as follows:

a. For test and program names, the order is determined by sorting logic applied to character fields in the following sequence:

Character Position	Sorting Order
2	A,F,G,L,0
4	0,1,,9,A,B,C,D,E,F
5	0,1,,9,A,B,,2
6	0,1,,9,A,B,,Z
7	0,1,,9,A,B,,Z
3	0,D,I,M,N,S,C

Program names appear on linkage edit test records in compile-time statistic files and test names appear on test records in run-time statistic files.

b. For file names, the sorting logic is applied to character fields in the following order:

Character Position	Sorting Order
2	A,F,G,L,O
4	P,O,1,,9,A,B,C,D,E,F
5	0,1,,9,A,B,,2
6	0,1,,9,A,B,,Z
7	$0,1,\ldots,9,A,B,\ldots,Z$
3	J.D.F.M.N

File names appear in compilation and file size test records in compile-time statistic files.

Table E-1. CCOMP Interface File Specifications

FORTRAN		·
Input/Output Unit	Туре	Description
5	Input	User terminal input
6	Outout	Terminal output for prompts and error messages
7	Input	Unformatted compile-time test result input file
8	Input	Unformatted compile-time test result input file
9	Output	Test result comparison output file
10	Output	Formatted output file for input from unit 7
11	Output	Formatted output file for input from unit 8

Table E-2. CEXEC Interface File Specifications

FORTRAN		
Input/Output Unit	Туре	Description
5	Input	User terminal input
6	Output	Terminal output for prompts and error messages
7	Input	Unformatted run-time test result input file
8	Input	Unformatted run-time test result input file
9	Output	Test result comparison output file
10	Output	Formatted output file for input from unit 7
11	Output	Formatted output file for input from unit 8
12	Output	Optionally generated file that contains the minimum or maximum test statistics for corresponding test results input from units 7 and 8

Table E-3. DEC VAX Ada Compile-time Test Statistic File

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							- 44					A
Stolus on 17			Elepted C		00:01:4		outt.		384	Cur. us. :	300	Coon files :
5101us en 17	-Bff-1404 E	M:80:92.47	Elepted C	~ .	00:01:5	3.51	Bull.	1/0 1	420	Eur. m. 1	350	Open files :
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Status en 17			Elepted E		00:01:5	3.67	bull.	1/0 1	484	Cur. w. i	300	Common files 1
XADAC -M-ENDDIAG										_		
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Status en 17-	-4rc-1-40	M:27:05.12	Elepsed C	~ .	90:02:0	•.7	auff.	1/0 1	510	Sur. m. 1	160	Open files s
CAPOSIOS										• .		
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SADAE -M-EMBOTAG										_		
Status on 17	-966-1404 (M:27:21.46	Elapsed C	N 1	90:02:1	5.95	wii.	1/0 i	501	Car. wa. s	150	Open files 1
4405304										_		
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KABAC -M-EMBOTAS												
Status en 17	-BEE-1484 6	M:27:37.78	Elapsed C	-V : 1	00:82:2	4.07	wii.	170 :	644	Cur. ws. 1	150	Open files :
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Status on 17			Elepted C		90:02:8	4.27	₩ 11.	1/0 1	670	Eur. 🖦 . 1	300	then files s
STEEDS -H-ENDDING						• •-				.		
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\$10 tus en 17	-DEC-1480 6	M:20:03.47	Elapsed C	70 : (00:01:3	7.57	buff.	1/0 :	773	Cur. m. :	300	Open files :
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Status on 17	-31[-1404 (PA: 27: 14.00	Elepsed C	PU : 1	90:07:2	0.61	wii.	1/0 1	1076	Cur. ws. 1	150	Open files :
400000A							- 44			_		
Status on 17			Elapsed C		00:03:1		aull.		3979	Cur. wa. I	300	Open files :
Status on 17	-BEC-3404 E	M:24:53.50	Elapsed C	PU 1 1	00:01:2	5.14	buff.	1/0 :	7750	Cur. es. :	150	Open files :
<a007000< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td></a007000<>										_		
Status on 17			Elegand C		06:03:8		wii.		2324	Cur. es. :	150	Open files :
	-BEC-1984 6	M:29:31.84	Elepsed E	PU : 1	00:91:2	9.52	wii.	1/0	2141	Cur. en. 1	150	Open files :
4AD00505										_		
Status on 17			Elmosod C		00:03:2	7.60	wii.	1/0 :	1145	Cur. us. 1	300	Open files :
XADAC -M-ENDDIAG										_		
Status en 17	-BEE-3400 (M:29:52.96	Elapsod C	7 0 i (90:8 3:4	1.78	wii.	1/0	1530	Cur. w. I	150	Open files:
<4000504										_		
\$101UN CM 17			Elapsed C		00:03:4	3.	buff.	1/0:	3843	Car. es. i	300	tiles:
XADAC-#-ENDDIAG												
Status on 17	-DEC-1906 (D4:30:02.89	Elapsed C	PU: (00:03:4	9.41	wii.	1/0:	1504	Cur. ws. 1	150	Open files :
cond compiles												
cetart links												
<**************************************												

Table E-3. DEC VAX Ada Compile-time Test Statistic File (Continued)

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Status on 17-DEC-1906 04:30:83.19 Elepsod CPU: 0 00:03:49.86 Ouff, 2/0: 3293 Cur. es. 365-1-EL_LINKING. Involving the VAX/VMS Linker
2010-H-HMMERS. compilation marriages in module 4400000 file PUBLIC:(UISSS6.8LAN.8DA.0EC|8400000.0BJ/: Status on 17-DEC-1906 04:30:20.01 Elepsod CPU: 0 00:03:51.26 Ouff, 3/0: 3346 Cur. ess.
                                                                                                                                                                                                                                                              Cur. us. :
                                                                                                                                                                                                                                                                                                      300
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  902201AP
 CATOSING ON 17-BEC-1986 De:30:21.00 Element CATOSING ON 17-BEC-1986 De:30:21.00 Element CATOSING ON 17-BEC-1986 De:30:21.00 Milk CATOSING ON 17-BEC-1986 De:30:21.00 Element CATOSING ON 17-BEC-1986 DE:30:21.00 Element
                                                                                                             Element CPU : 0 00:03:81.38
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                                                                                                                                                                                                                                                                                                      300
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                                                                                                             in module Af05307 file PUBLIC: [U]8554.ALAN.ADA.DEC 14705307.08.J.1
                                                                                                             in module AF95306 file PUBLIC: | UIS554.ALAM.ADA.9[C | AF95306.00]| in module AF95305 file PUBLIC: | UIS554.ALAM.ADA.9[C | AF95305.00]| i
 XLIME-M-MMMERS. compilation marnings
Status on 17-DEC-1966 0:30:34.50
44500000
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     Status en 17-9EC-1984 84:30:39.81
                                                                                                            Elepsed CPU: 0 00:01:53.59 Buff. 1/0:
                                                                                                                                                                                                                                           1425
                                                                                                                                                                                                                                                                                                       150
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 RACS-1-EL_LINKING. Invoking the VAXVWS Linker
Stelvs on 17-DEC-1900 04:30:50.53 Eleps
                                                                                                            Elapsed CPU : 0 00:83:55.62
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 Elepted CPU : 0 00:03:55.77
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teleri seuree size
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 4AF09000 20
 CAT 05305 6
 44105306 7
 44705307 7
 CAFDSIDA 3
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 <A000000 2
 44000504 4
 cond tource size = 215
detert object size
  tays to- 568
 48400000 7
 <4105305 17
 44705304 20
44705307 20
 <4F05308 8
 <AG09000 7
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<AC00000 122 <ACM0000 0 <AC00000 13

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<A000505 26
<A000506 11
<end object size = 699
<start executable size
<AA00000 59
<AF05308 64
<AG00008 68
<AGM0008 67
<A000506 64
<end executable size = 322</pre>
```

Table E-4. ECSPO JOVIAL Compile-time Test Statistic File

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 MSCOODSDUAS: [JOVIAL.COM 16.700LS.FV.EME LJOVIAL.EME 13 Compiler Image
                                                                                                                                                                                   13-769-1904 23:20:13
PUBLIC: EU1555-ALAW.JEVIAL BUMJOV.CPL 184
PUBLIC: EU1555-ALAW.JOVIAL BUMJOV.CBJ11
                                                                                                                           Source Module
Soject Sutput
Compact Sutput
                                                                                                                                                                                   16-9EC-1906 14:51:18
                                                                                                                                                                                  17-DEC-1904 04:16:36
17-DEC-1904 04:16:37
 PUBLIC: EUISSE4. ALAN. JOVIAL TOUBJOY. CHP125
288 Source Lines. 145 JOVIAL Statements.
Comilation Time:
                                                 CPU TIME . 0:00:07.31 | ELAPSED TIME . 00:00:11.20
                                                                                                                                                                                  Creation Date/Time
PUBLIC: [UISSS4.4[AN.JOVIAL].DOVINC.COP.13 Composite Jumps
PUBLIC: [UISSS4.4[AN.JOVIAL].DOVINC.COP.14 COMPOSITE JUMPS
PUBLIC: [UISSS4.4[AN.JOVIAL].DOVINC.COP.
                                                                                                                                                                                   13-769-1904 23:20:13
PUBLIC: 1015554. ALAN. JOVIAL 1JOVSYS. JOV: 121
PUBLIC: 1015554. ALAN. JOVIAL 1008JOV. CMP: 23
                                                                                                                                                                                  16-DEC-190: 15:33:30
17-DEC-1906 04:16:37
PUBLIC: LUISSS . ALAN . JOVIAL LUOVOM . CHP 115
PUBLIC: LUISSS . ALAN . JOVIAL LUOVSYS . 08.J 1
                                                                                                                                                                                  10-000-1906 15:03:20
17-000-1906 04:17:21
                                                                                                                           Chinet Butaut
906 Seurce Lines. 610 JOVIAL Statements.
5 MESSAGES: 5 MARMING
Compilation Time: CPU TIME # 0:00:40.07 ELAPSED TIME # 00:00:45.06
file
                                                                                                                                                                                  fraction beta/line
                                                                                                                           Mage
MSCODODUAS: [JDV14].CONF1G.TODLS.FV.EXE1JDV14L.EXE11 Compiler Image
                                                                                                                                                                                  15-FER-1904 21:20:15
                                                                                                                          Source Medule
Compact Imput
Stripet Sutput
                                                                                                                                                                              16-DEC-1966 10:03:83
- 17-DEC-1966 04:16:37
17-DEC-1966 04:27:33
 PUBLIC: [UISSS4.ALAN.JOVIAL JJOVBHP.CPL14
PUBLIC: (U15554. ALAN. JOVIAL JOURJOY, CHP 125
PUBLIC: [UISSS4.ALPY, JOVIAL JUVONO, 08J]]
PUBLIC: [UISSS4.ALPY, JOVIAL JUVONO, CHP]]
                                                                                                                                                                                  17-06C-1904 04:17:33
                                                                                                                                       m) mimit
60 Source Lines. 42 JOVIAL Statements.
Compilation Time: CPU TIME * 0:00:04.55 ELAPSED TIME * 00:00:06.15 File
                                                                                                                                                                                   Creation Date/Time
RECODURDUS: (JOV7AL.CONTIC.TOOLS.FV.EME LLOVIAL.EME 12 Compiler Image Public: (U1855-.ALAN.JOV1AL (DURJOV.JOV.4 Source Redule Public: U1855-.ALAN.JOV1AL (DURJOV.CPP 123 Compol Imput Public: (U1855-ALAN.JOV1AL (LIDVIAU).CPP 124 Compol Imput
                                                                                                                                                                                   13-FF9-1904 21:20:13
                                                                                                                                                                                  15-719-2400 E3:29:35
16-9EC-1400 10:03:06
17-9EC-1400 04:16:37
17-9EC-1400 04:17:33
17-9EC-1400 04:17:47
 PUBLIC: TUISSS4. ALAM, JOVIAL 1000 JOV. 00.J.1
50 Source Lines. 21 JOVIAL Statements.
       wileties Tie
                                                  EPU TIME . 9:90:96.82
                                                                                                        ELAPSED TIME . 00:90:12.70
Status on 37-900-1906 04:17:56.36 Elepsod CPU t 0 00:01:15.45
                                                                                                                                                                          MII. 1/0 :
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     Status on 17-000-1906 04:17:56.57
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                                                                                                                                                                                35-9EC-1906 35:59:49
37-9EC-1906 94:16:37
37-9EC-1906 94:18:03
37-9EC-1906 94:18:04
PUBLIC: 1U355% ALAH, JOVIAL JJAPPDOD, CPL, F
PUBLIC: 1U355% ALAH, JOVIAL JOUNJOY, CPP, 23
PUBLIC: 1U355% ALAH, JOVIAL JJAPPDOD, CBJ, 1
                                                                                                                          Source Medule
Compact Imput
                                                                                                                           Chapte 1 Suspet
 PUBLIC: (UISSSM. ALAN. JOVIAL IJADPODO. CHP 113
                                                                                                                           Company Dytavt
```

Table E-4. ECSPO JOVIAL Compile-time Test Statistic File (Continued)

MSCBOOTBUAS: [JOV] AL. COMFIC. TOOLS. FV. EXE JJOV] AL. EXE	11 Comiler Isses	13-770-1904 23:70:13			
PUBLIC: [U15554 ALAW, JOVIAL JOOPODO . CPL 14	Source Heatele	15-DEC-1904 15:57:53			
PUBLIC: LUISSS4 ALAN, JOVIAL BURJOV, CPP 123	Compet Input	17-DEC-3966 04:16:57			
PUBLIC: 1015554 ALAN JONIAL 1J0000000.00J11	Object Dutaut	17-DEC-1984 84:21:40			
PURL 1C: [U155%, ALAN, JOVIAL JJ0000000, CNP.18	Compel Dylaut	17-DEC-1984 04:21:40			
34 Source Lines. 20 JOVIAL Statements.		21-000-1400 0-151140			
NO MESSAGES.					
	SED TIPE . 80:80:86.94				
	PU 1 0 00:03:34.50	Buff, 1/9 : 1994	Cur. es. :	150	Common files :
C.1000105		2011. 270 1			
	PU : 0 00:03:34.71	Buff, 1/D : 1948	Car. m. 1	380	Com files :
file	Vage	Freetien Bete/lies			
WSCOODSDUAS: I JOYI AL . CONTIG. TODLS . FV. EXE LJOYI AL . EXE		11-750-1904 21:20:11			
PUBLIC: [U15554 . AL MI. JOVIAL 1J000505 . J0V:13	Source Madule	16-06C-1904 17:11:35			
PUBLIC: EUISSSA . AL MI. JOVIAL BURJOV.CIP 123	Compost Irant	17-000-1904 04:14:17			
PUBLIC: 1015554 . AL AN . JOVIAL 1J000000 . CIP 18	Composi Iraut	17-016-1904 04:21:40			
PUBLIC: EU15584 . ALAN . JOVIAL IJOVOHP . CIP 114	Company Irrout	17-BEC-1984 84:17:33			
PUBLIC: [UISSS4, ALAM, JOVIAL IJ000505.08J1]	Shippel Bulant	17-066-1904 04:21:54			
92 Source Lines. 47 JOVIAL Statements.		0. 000 2.00 2.000			
* MESSAGES: * INFORMATION					
Comilation Tree: CPU TIME . 8:00:18.00 ELAP	SED TIME - 00:00:24.01				
Status on 17-000-1984 04:21:50.99 Element C		Buff. 1/D : 2025	Eur. ws. 1	120	then files :
<.U000504					
Status on 37-960-3464 04:21:59.23 Elegand C	PU : 8 90:83:47,93	Buff. I/D 1 2029	Cur. es. 1	300	tem files :
file	Veogo	Erection Detection			
****************		*******************			
WSCOODSUAS: LJOVIAL .CONFIG. TOOLS . FV. ENE LJOVIAL .ENE	. Comiles too				
		II-FUN-IUM ELIFE:IX			
PURLIC: [U15554 . ALAH . JOVIAL 1J000506 . J0V:16	Source Medule	13-FEB-3906 23:26:33 18-BEC-3906 27:11:59			
	Source Medule	35-06C-1906 37:31:59			
PURLIC: [U15554. ALAN. JOVIAL]J000504. J0V134	Source Hedule Compost Imput	18-060-1906 17:11:59 17-060-1904 04:16:37			
PUBLIC: [U15554.ALAN.JDVIAL]J000504.JDV124 PUBLIC: [U15554.ALAN.JDVIAL DUBJDV.CHP123	Source Medule	18-06C-1406 17:11:54 17-06C-1406 04:16:37 17-06C-1406 04:21:40			
PUBLIC: (U15554: ALAH, JDVIAL JJD00506: JDV:)36 PUBLIC: (U15554: ALAH, JDVIAL JDJJDV; CPP:)23 PUBLIC: (U15554: ALAH, JDVIAL JJD0P8D; CPP:)8	Source Hedule Compact Imput Compact Imput Compact Imput	35-066-1906 17:11:59 17-066-1906 04:16:37 17-066-1906 04:21:40 17-066-1906 04:17:51			
PUBLIC: [U1555 ALAH. JDVIAL]JD0050 JDV126 PUBLIC: [U1555 ALAH. JDVIAL]JDJDV/CPP123 PUBLIC: [U1555 ALAH. JDVIAL]JD0900 . CPP-18 PUBLIC: [U1555 ALAH. JDVIAL]JDVPD CPP-14	Source Hadule Compact Input Compact Input	18-06C-1406 17:11:54 17-06C-1406 04:16:37 17-06C-1406 04:21:40			
PUBLIC: (U15554. ALAH. JOVIAL JJ000504. JÖV134 PUBLIC: (U15554. ALAH. JÖVIAL JÖJDOVAC (119123 PUBLIC: (U15554. ALAH. JÖVIAL JJ009000. C1918 PUBLIC: (U15554. ALAH. JÖVIAL JJ00909. C19114 PUBLIC: (U15554. ALAH. JÖVIAL JJ000504. CBJ13	Source Hedule Compact Imput Compact Imput Compact Imput	35-066-1906 17:11:59 17-066-1906 04:16:37 17-066-1906 04:21:40 17-066-1906 04:17:51			
PUBLIC: [UISSSA: ALAN, JOVIAL JUDOSSA: JÖV: 126 PUBLIC: [UISSSA: ALAN, JOVIAL JUDIPOPO (PM: 128 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPOPO (PM: 18 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPOPO (PM: 16 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPSA: (BJ.) 1 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPSA: (BJ.) 1 PUBLIC: [UISSSA: ALAN, JOVIAL Statements. 9 PUBSAGCS: 9 3M OWNATION	Source Medical Compost Imput Compost Imput Compost Imput Compost Output	\$5-000-1906 37:31:59 37-000-1906 00:36:37 37-000-1906 00:31:00 37-000-1906 00:17:33 37-000-1906 00:12:00			
PUBLIC: [U15556. ALAN. JOVIAL JJ000506. JÖV136 PUBLIC: [U15556. ALAN. JÖVIAL JÖJJAV. CPP123 PUBLIC: [U15556. ALAN. JÖVIAL JJ00900. CPP18 PUBLIC: [U15556. ALAN. JÖVIAL JJ00900. CPP116 PUBLIC: [U15556. ALAN. JÖVIAL JJ000506. OBJ12 76 Smaree Lime: 68 JÖVIAL Statements. 9 PESSAGES: 9 JMFGMATSDM Cermilation Time: CPU TIPE # 9:80:86.39 (LAP	Source Medule Exemped Imput Compand Imput Compand Imput Compand Imput Object Gutput	\$\$-000-1906 17:31:59 37-000-1906 04:26:37 37-000-1906 04:21:00 37-000-1906 04:22:00 37-000-1906 04:22:00	Ear, ea. 1	180	Eman files :
PUBLIC: [UISSSA: ALAN, JOVIAL JUDOSSA: JÖV: 126 PUBLIC: [UISSSA: ALAN, JOVIAL JUDIPOPO (PM: 128 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPOPO (PM: 18 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPOPO (PM: 16 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPSA: (BJ.) 1 PUBLIC: [UISSSA: ALAN, JOVIAL JUDOPSA: (BJ.) 1 PUBLIC: [UISSSA: ALAN, JOVIAL Statements. 9 PUBSAGCS: 9 3M OWNATION	Source Medule Exemped Imput Compand Imput Compand Imput Compand Imput Object Gutput	\$5-000-1906 37:31:59 37-000-1906 00:36:37 37-000-1906 00:31:00 37-000-1906 00:17:33 37-000-1906 00:120:00	Eur. ws. t	150	Open files :
PUBLIC: [UISSS-ALAM.JDVIALIJD00500.JDV.126 PUBLIC: [UISSS-ALAM.JDVIALIDJDV.CTP.125 PUBLIC: [UISSS-ALAM.JDVIALIJD00900.CTP.18 PUBLIC: [UISSS-ALAM.JDVIALIJD00900.CTP.16 PUBLIC: [UISSS-ALAM.JDVIALIJD00500.GDJ12 70 Smree Live: 60 JDVIALStetments. 9 PESSAGE: 9 INFORMATION Commilation Time: CPU TIME 8 0:00:06.39 ELAP Status on 17-DEC-1906 04:22:21.20 Elapsed E	Source Medule Exemped Imput Compand Imput Compand Imput Compand Imput Object Gutput	\$\$-000-1906 17:31:59 37-000-1906 04:26:37 37-000-1906 04:21:00 37-000-1906 04:22:00 37-000-1906 04:22:00	Eur. ws. t	150	Open files :
PUBLIC: [UISSSA. ALAN. JOVIAL JJ000506. J0V.126 PUBLIC: [UISSSA. ALAN. J0VIAL JJ000506. J0V.126 PUBLIC: [UISSSA. ALAN. J0VIAL JJ000600. Ctm.18 PUBLIC: [UISSSA. ALAN. J0VIAL JJ000600. Ctm.16 PUBLIC: [UISSSA. ALAN. J0VIAL JJ000506. CBJ.12 PUBLIC: [UISSSA. ALAN. J0VIAL JJ000506. CBJ.13 PUBLIC: [UISSSA. ALAN. J000506. CBJ.13 PUBLIC: [UISSSA. ALAN. J0	Source Medule Exemped Imput Compand Imput Compand Imput Compand Imput Object Gutput	\$\$-000-1906 17:31:59 37-000-1906 04:26:37 37-000-1906 04:21:00 37-000-1906 04:22:00 37-000-1906 04:22:00	Eur. ws. t	150	Open files :
PUBLIC: [U15556. ALAN. JOVIAL JUDOSSO. JÖV126 PUBLIC: [U15556. ALAN. JOVIAL JUDUJOV, CP0:23 PUBLIC: [U15556. ALAN. JOVIAL JUDOPOD. CP0:18 PUBLIC: [U15556. ALAN. JOVIAL JUDOPOD. CP0:16 PUBLIC: [U15556. ALAN. JOVIAL JUDOSSO. 08.J11 78 Saureo Linux. — GE JOVIAL Statements. 9 RESSECTS: 9 1MT GRNATION Committee CPU TIPE = 0:90:96.39 ELAN Status on 17-DEC-1966 94:22:22.20 Elepeed C	Source Medule Emped Imput Emped Imput Comped Imput Comped Imput Object Output SED TIME = 80:00:20.34 PU : 0 00:03:58.33	35-0EC-1906 27:31:59 37-0EC-1906 04:36:37 37-0EC-1906 04:31:33 37-0EC-1906 04:37:33 37-0EC-1906 04:22:00			
PUBLIC: [UISSSA. ALAM. JOVIAL JUDODSOA. JOVI36 PUBLIC: [UISSSA. ALAM. JOVIAL JUDIPOP. ("PP.25 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOP. ("PP.26 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOP. ("PP.36 PUBLIC: [UISSSA. ALAM. JUDOPOP. ("PP.36 PUBLIC: [UISSSA	Source Medule Composi Imput Composi Imput Composi Imput Composi Imput Object Output SED TIME * 00:00:30.36.33	35-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:90 37-0EC-1906 90:17:33 37-0EC-1906 90:122:00 9uff. 3/0 1 2106	Eur. w. 1	300	then files :
PUBLIC: [U15554. ALAH. JOVIAL JJ000504. JÖV126 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J00504. JÜV126 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J00604. JUM126 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J00504. JUM126 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J00504. JUM126 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J00504. JUM127 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J00604. JUM127 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J0064. JUM127 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J0064. JUM127 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J0064. JJ0J0064. JUM127 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J0064. JUM127 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J0064. JJ0J0064. JUM127 PUBLIC: [U15554. ALAH. JJ0VIAL JJ0J0064. JJ0J006	Source Medule Composi Imput Composi Imput Composi Imput Composi Imput Object Output SED TIME * 00:00:30.36.33	35-0EC-1906 27:31:59 37-0EC-1906 04:36:37 37-0EC-1906 04:31:33 37-0EC-1906 04:37:33 37-0EC-1906 04:22:00			
PUBLIC: [U1555-ALAH. JOVIAL JJ00050-A.J0V126 PUBLIC: [U1555-ALAH. JJ0VIAL JJ00050-A.J0V126 PUBLIC: [U1555-ALAH. JJ0VIAL JJ00050-CHP128 PUBLIC: [U1555-ALAH. JJ0VIAL JJ00050-CHP13-PUBLIC: [U1555-ALAH. JJ0VIAL JJ00050-CBJ11-PBJBLIC: [U1555-ALAH. JJ0VIAL JJ00050-CBJ11-PBJBLIC: [U1556-ALAH. JJ0VIAL JJ00050-CBJ11-PBJBLIC: [U1556-ALAH. JJ0VIAL JJ00050-CBJ11-PBJBLIC: [U156-ALAH. JJ0VIAL JJ00050-CBJ11-PBJBLIC: [U156-ALAH. JJ0VIAL JJ00050-CBJ11-PBJBLIC: [U156-ALAH. JJ0VIAL JJ00050-CBJBLIC: [U156-ALAH. JJ00050-CBJBLIC: [Source Medule Emmes! Imput Emmes! Imput Emmes! Imput General Imput Object Output SED TIME = 80:00:20.34 PU : 0 00:03:58.33 PU : 0 00:03:58.47 PU : 0 00:03:59.07	85-000-1906 17:21:59 27-000-1906 04:26:27 27-000-1906 04:27:08 27-000-1906 04:27:33 27-000-1906 04:22:00 Buff. 2/0 : 2106 0uff. 2/0 : 2106	Eur. ws. 1 Eur. ws. 1	300 180	Open files :
PUBLIC: [UISSSA. ALAM. JOVIAL JUDOSSA. JOVI36 PUBLIC: [UISSSA. ALAM. JOVIAL JUDIPOC. (***) 23 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. (***) 18 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. (***) 16 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOSSA. (***) 17 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOSSA. (***) 17 PS SAMPOR LIMOS. 68 JOVIAL STRUMENTA. 9 PESSAGES: 9 JOH GOMATION Commission Time: CPU TIME = 0:00:06.39	Secret Medile	35-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:90 37-0EC-1906 90:17:33 37-0EC-1906 90:122:00 9uff. 3/0 1 2106	Eur. w. 1	300	then files :
PUBLIC: [U15554. ALAH. JOVIAL JJ000504. J0V126 PUBLIC: [U15554. ALAH. J0VIAL JJ000504. J0V126 PUBLIC: [U15554. ALAH. J0VIAL JJ000504. Ctm;8 PUBLIC: [U15554. ALAH. J0VIAL JJ000504. Ctm;16 PUBLIC: [U15554. ALAH. J0VIAL JJ000504. CbJ;12 PUBLIC: [U15554. ALAH. J000504. CbJ;12 PUBLIC: [U15554. ALAH. J0005	Secret Medile	85-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:00 37-0EC-1906 90:17:33 37-0EC-1906 90:12:00 Buff, 3/0 1 2106 Buff, 3/0 1 2109 Buff, 3/0 1 2109 Buff, 3/0 1 2109	Eur. ws. 1 Eur. ws. 1 Eur. ws. 1	300 130 300	Spon files : Spon files :
PUBLIC: [UISSSA. ALAM. JOVIAL JUDODSON. JOVI36 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSON. JOVI36 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSON. JOWI38 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSON. JOWI38 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSON. JOWI31 78 SEMPER LIWEL 68 JOVIAL SENTEMENTS. 9 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSON. JOWI31 78 SEMPER LIWEL 68 JOVIAL SENTEMENTS. 9 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSON. JOWI31 78 SEMPER LIWEL 68 JOVIAL JUDOPSON. JULI 28 SENTEMENT 1 1900 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Source Medule Emmes! Imput Emmes! Imput Emmes! Imput General Imput Object Output SED TIME * 00:00:18.34 PU : 0 00:03:55.33 PU : 0 00:03:59.07 PU : 0 00:04:09.00 PU : 0 00:04:09.01	85-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:00 37-0EC-1906 90:17:33 37-0EC-1906 90:17:33 37-0EC-1906 90:122:00 0uff, 3/0 1 2106 0uff, 3/0 1 2109 0uff, 3/0 1 2109	Eur. ws. 1 Eur. ws. 1 Eur. ws. 1	300 130 300	Spon files : Spon files :
PUBLIC: [UISSSA. ALAM. JOVIAL JUDOSSA. JOVI36 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSO. JOW 128 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSO. JOW 18 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSO. JOW 18 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSO. JOW 14 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOSSA. JOW 14 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPSO. JUDOP	Secret Medule	85-000-1906 17:21:59 27-000-1906 04:26:27 27-000-1906 04:27:00 27-000-1906 04:27:33 27-000-1906 04:22:00 04ff. 3/0 1 2106 04ff. 3/0 1 2109 04ff. 3/0 1 2109 04ff. 3/0 1 2109	Eur. w. : Eur. w. : Eur. w. :	300 130 300 150	Open files : Open files : Open files :
PUBLIC: [U15554. ALAH. JOVIAL JJ000506. J0V.126 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. J0V.126 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. Ctm.18 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. Ctm.16 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. CbJ.12 PUBLIC: [U15554. ALAH. J000506. C	Secret Medule	85-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:00 37-0EC-1906 90:17:33 37-0EC-1906 90:17:33 37-0EC-1906 90:17:33 00:17:370 1 2106 00:17:370 1 2109 00:17:370 1 2109 00:17:370 1 2109 00:17:370 1 2200 00:17:370 1 2200	Eur. ms. 1 Eur. ms. 1 Eur. ms. 1 Eur. ms. 1	300 150 300 150	Spon files : Spon files : Spon files : Spon files :
PUBLIC: [UISSSA. ALAM. JOVIAL JUDODSON. JOVI36 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. C: [UP 12] PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. C: [UP 12] PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. C: [UP 16] PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. C: [UP 16] PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. C: [UP 16] PUBLIC: [UISSSA. ALAM. JOVIAL JUDOSSON. [UP 17] PUBLIC: [UISSSA. ALAM. JOVIAL JUDOSSON. [UP 17] PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOD. C: [UP 16] PUBLIC: [UISSSA. ALAM. JUDOPOD. C: [UI 16] PUBLIC: [UISSSA. ALAM. JUDOPOD. C: [UP 16] PUBLIC: [UISSSA. ALAM. JUDOPOD. C: [UP 16] PUBLIC: [UISSSA. ALAM. JUDOPOD. C: [UP 16] PUBLIC: [UISSSA. ALAM. JUDOPOD. C: [UISSSA. C. [UISS] PUBLIC: [UISSSA. ALAM. JUDOPOD. C: [UISSSA. C. [UISSSA. C. [UISSSA.]	Source Medule Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput Object Output SED TIME = 00:00:20.36 PU : 0 00:03:55.33 PU : 0 00:03:55.47 PU : 0 00:04:05.00 PU : 0 00:04:05.01 PU : 0 00:04:05.15	85-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:00 37-0EC-1906 90:17:33 37-0EC-1906 90:17:33 37-0EC-1906 90:122:00 0uff, 3/0 1 2106 0uff, 3/0 1 2109 0uff, 3/0 1 2109 0uff, 3/0 1 2109 0uff, 3/0 1 2200 0uff, 3/0 1 2200	Eur. ms. 1 Eur. ms. 1 Eur. ms. 1 Eur. ms. 1	300 150 300 150	Spon files : Spon files : Spon files : Spon files :
PUBLIC: [U1555 ALAM. JOVIAL JUDOSSO. JOVI36 PUBLIC: [U1555 ALAM. JOVIAL JUDOPSO. JOVI36 PUBLIC: [U1555 ALAM. JOVIAL JUDOPSO. JOWI36 PUBLIC: [U1555 ALAM. JOVIAL JUDOPSO. JOWI36 PUBLIC: [U1555 ALAM. JOVIAL JUDOPSO. JOWI36 PUBLIC: [U1555 ALAM. JOVIAL JUDOSSO. JOWI31 PUBLIC: [U1555 ALAM. JOVIAL JUDOSSO. JULI31 PUBLIC: [U1555 ALAM. JUDOSSO. JULI31 PUBLIC: [U	Source Medule Composi Imput Composi Imput Composi Imput Composi Imput Composi Imput Object Output SED TINE * 00:00:20.36 PU : 0 00:03:58.33 PU : 0 00:03:58.47 PU : 0 00:03:59.87 PU : 0 00:04:00.00 PU : 0 00:04:08.01 PU : 0 00:04:08.01 PU : 0 00:04:28.15 PU : 0 00:04:28.27	\$5-000-1906 17:31:59 37-000-1906 04:36:37 37-000-1906 04:37:33 37-000-1906 04:37:33 37-000-1906 04:32:00 0417, 3/0 1 2106 0417, 3/0 1 2109 0417, 3/0 1 2109 0417, 3/0 1 2109 0417, 3/0 1 2109 0417, 3/0 1 2200 0417, 3/0 1 2200 0417, 3/0 1 2200	Eur. es. 1 Eur. es. 1 Eur. es. 1 Eur. es. 1 Eur. es. 1	300 130 300 150 300 230	Comm files : Comm files : Comm files : Comm files : Comm files : Comm files :
PUBLIC: [U15554. ALAH. JOVIAL JJ000506. J0V126 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. J0V126 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. Ctm; 8 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. Ctm; 16 PUBLIC: [U15554. ALAH. J0VIAL JJ000506. CbJ; 1] PUBLIC: [U15554. ALAH. J0000506. CbJ; 1] PUBLIC: [U15566. ALAH. J0000506. CbJ; 1] PUBLIC: [U15566. ALAH. J0000506. Cb	Source Medule Composi Imput Composi Imput Composi Imput Composi Imput Composi Imput Object Output SED TINE * 00:00:20.36 PU : 0 00:03:58.33 PU : 0 00:03:58.47 PU : 0 00:03:59.87 PU : 0 00:04:00.00 PU : 0 00:04:08.01 PU : 0 00:04:08.01 PU : 0 00:04:28.15 PU : 0 00:04:28.27	85-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:00 37-0EC-1906 90:37:33 37-0EC-1906 90:37:33 37-0EC-1906 90:37:33 00:41, 3/0 1 2100 00:41, 3/0 1 2100 00:41, 3/0 1 2100 00:41, 3/0 1 2200 00:41, 3/0 1 2200 00:41, 3/0 1 2200 00:41, 3/0 1 2200 00:41, 3/0 1 2302	Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1	300 130 300 150 300 230	Spon files : Spon files : Spon files : Spon files : Spon files : Spon files :
PUBLIC: [UISSSA: ALAM. JOVIAL JUDODSON. JOVI36 PUBLIC: [UISSSA: ALAM. JOVIAL JUDOPSON. CVP 128 PUBLIC: [UISSSA: ALAM. JOVIAL JUDOPSON. CVP 128 PUBLIC: [UISSSA: ALAM. JOVIAL JUDOPSON. CVP 148 PUBLIC: [UISSSA: ALAM. JOVIAL JUDOPSON. CBJ11 70 Semreo Liver: 60 JOVIAL Statements. PUBLIC: [UISSSA: ALAM. JOVIAL JUDOSSON. CBJ11 70 Semreo Liver: 60 JOVIAL Statements. PUBLIC: [UISSSA: ALAM. JOVIAL JUDOSSON. CBJ11 70 Semreo Liver: 60 JOVIAL Statements. PUBLIC: [UISSSA: ALAM. JOVIAL JUDOSSON. CBJ11 70 Semreo Liver: 60 JOVIAL Statements. PUBLIC: [UISSSA: 60 JUDOSSON. CBJ11 PUBLIC: [Source Medule Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput PU : 0 00:03:55.47 PU : 0 00:03:55.47 PU : 0 00:03:59.87 PU : 0 00:04:00.00 PU : 0 00:04:05.01 PU : 0 00:04:25.15 PU : 0 00:04:25.15	85-0EC-1906 27:31:59 37-0EC-1906 90:36:37 37-0EC-1906 90:31:00 37-0EC-1906 90:37:33 37-0EC-1906 90:37:33 37-0EC-1906 90:37:33 00:41, 3/0 1 2100 00:41, 3/0 1 2100 00:41, 3/0 1 2100 00:41, 3/0 1 2200 00:41, 3/0 1 2200 00:41, 3/0 1 2200 00:41, 3/0 1 2200 00:41, 3/0 1 2302	Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1	300 130 300 150 300 230	Spon files : Spon files : Spon files : Spon files : Spon files : Spon files :
PUBLIC: [UISSSA. ALAM. JOVIAL JUDODSOA. JOVI36 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOPO. CVP 12 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOPO. CVP 18 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOPO. CVP 16 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOPO. CVP 16 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOPO. CVP 16 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOP. CVP 16 PUBLIC: [UISSSA. ALAM. JOVIAL JUDOPOPO. CVP 17 PUBLIC: [UISSSA. ALAM. JUDOPOPO. CVP 17 PUBLIC: [UISSSA. ALAM. JUDOPOPOPOPOPOPOPOPOPOPOPOPOPOPOPOPOPOPOP	Source Medule Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput SEP TIME = 00:00:20.36.33 PU : 0 00:03:55.37 PU : 0 00:03:59.87 PU : 0 00:04:00.00 PU : 0 00:04:00.01 PU : 0 00:04:25.35 PU : 0 00:04:35.35 PU : 0 00:04:35.35	85-860-1906 17:31:59 37-860-1906 90:36:37 37-860-1906 90:31:09 87-860-1906 90:37:33 37-860-1906 90:37:33 37-860-1906 90:37:33 37-860-1906 90:32:09 8uff, 3/0 1 2106 8uff, 3/0 1 2109 8uff, 3/0 1 2109 8uff, 3/0 1 2109 8uff, 3/0 1 2200 8uff, 3/0 1 2200 8uff, 3/0 1 2200 8uff, 3/0 1 2200 8uff, 3/0 1 2302 8uff, 3/0 1 2307 8uff, 3/0 1 2307	Eur. es. : Eur. es. : Eur. es. : Eur. es. : Eur. es. : Eur. es. :	300 150 300 150 300 250 300 350	Com files : Com files :
PUBLIC: [UISSSA: ALAM. JOVIAL JUDOSSA: JOVI26 PUBLIC: [UISSSA: ALAM. JOVIAL JUMPJOY, CTM 127 PUBLIC: [UISSSA: ALAM. JOVIAL JUMPSM: CTM 18 PUBLIC: [UISSSA: ALAM. JOVIAL JUMPSM: CTM 16 PUBLIC: [UISSSA: ALAM. JOVIAL JUMPSM: CTM 16 PUBLIC: [UISSSA: ALAM. JOVIAL JUMPSM: CTM 17 PUBLIC: [UISSSA: ALAM. JOVIAL JUMPSM: CTM 16 PUBLIC: [UISSSA: A	Source Medule Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput Emmest Imput PU : 0 00:03:55.47 PU : 0 00:03:55.47 PU : 0 00:03:59.87 PU : 0 00:04:00.00 PU : 0 00:04:05.01 PU : 0 00:04:25.15 PU : 0 00:04:25.15	\$6-000-1906 \$7:31:59 37-000-1906 \$0:21:00 37-000-1906 \$0:21:00 37-000-1906 \$0:21:00 37-000-1906 \$0:17:33 37-000-1906 \$0:17:33 37-000-1906 \$0:17:33 37-000-1906 \$0:17:33 37-000-1906 \$0:17:33 37-000-1906 \$0:17:33 37-000-1906 \$130 8uff. 3/0 1 \$130 8uff. 3/0 1 \$130 8uff. 3/0 1 \$200	Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1 Eur. ws. 1	300 150 300 150 300 150 300 300	Spen files : Spen files :

Table E-4. ECSPO JOVIAL Compile-time Test Statistic File (Concluded)

```
<start source size
<system 104
<JAOPOOO 2
<JA00000 3
<JF0P000 21
<JF05305 7
<JF05306 9
<JF05307 9
<JF05308 3
<JG0P000 2
<JG00008 43
<JGM0008 2
<J00P000 4
<J000505 8
<J000506 4
<end source size = 221</pre>
<start object size</pre>
<system 52
<JADPODD 3
<JA00000 2
<JF0P000 23
<JF05305 5
<JF05306 6
<JF05307 6
<JF05308 1
<JG0P000 3
<JG00008 20
<JGM0008 1
<J00P000 4
<J000505 5
<J000506 2
<end object size = 133</pre>
<start executable size
<JA00000 29
<JF05308 31
<JG00008 32
<JGM0008 32
<J000506 31
<end executable size = 155</pre>
```

Table E-5. ACPS Compilation Comparator Formatted Ada File

C	OMPILATION	- SHOH ST	ATUS ST	ATISTICS(MIT B)
FILES(S)	HALL-CLOCK	CPU-TIME	BUFIO	DIRIO PA	AGE-FAULTS
system	121.27	99.31	153	238	13661
AADPODD	7.31	3.59	36	49	1982
AADDDDD	9.37	4.74	45	60	2281
AFOP000	12.15	8.11	37	58	2521
AF05305	16.08	8.11	75	113	3175
AF05306	16.05	8.85	73	100	3215
AF05307	16.37	8.95	73	104	3305
AF05308	8.80	4.18	46	60	2168
AG0P000	7.73	3.80	37	53	2574
AG00008	62.84	38.96	240	335	15671
AGM0008	8.64	4.42	42	59	2277
ADDPDDD	8.26	4.15	37	63	2440
A000505	20.85	14.10	73	109	3636
A000506	9.62	5.47	46	62	2306
totals	325.34	216.74	1013	1463	61212

LINKAGE EDIT - SHOW STATUS STATISTICS UNIT FILES(S) HALL-CLOCK CPU-TIME BUFIO DIRIO PAGE-FAULTS **AA00000** 17.62 1.70 53 49 489 AF05308 18.50 71 2.03 58 484 AG00008 18.72 2.03 59 49 701 AGM0008 18.31 1.94 60 51 493 A000506 17.49 1.81 59 49 499 totals 90.64 9.51 302 256 2666

Table E-5. ACPS Compilation Comparator Formatted Ada File (Continued)

SOURCE MODULE- FILE SIZE STATISTICS (UNIT 8)

### 109 AAOPOOD 2 AAOOOOO 4 AFOPOOD 20 AFOS305 6 AFOS306 7 AFOS307 7 AFOS308 3 AGOPOOD 2 AGODOB 37 AGMODOB 2 AOOPOOD 4 AOOOSO5 8 AOOOSO6 4		
AA00000 4 AF0P000 20 AF0S305 6 AF0S306 7 AF0S307 7 AF0S308 3 AG0P000 2 AG0D008 37 AGM0008 2 A00P000 4 A000505 8 A000506 4	system	109
AF0P000 20 AF0S305 6 AF0S306 7 AF0S307 7 AF0S308 3 AG0P000 2 AG0D008 37 AGM0008 2 A00P000 4 A000505 8 A000506 4	AADPOOD	2
AF05305 6 AF05306 7 AF05307 7 AF05308 3 AG0P000 2 AG0D008 37 AGM0008 2 A00P000 4 A000505 8 A000506 4	AA00000	4
AF05306 7 AF05307 7 AF05308 3 AG0P000 2 AG0D008 37 AGM0008 2 A00P000 4 A00P000 4 A000505 8 A000506 4	AFOPOOO	20
AF05307 7 AF05308 3 AG0P000 2 AG0D008 37 AGM0008 2 A00P000 4 A000505 8 A000506 4	AF05305	6
AF05308 3 AG0P000 2 AG0D008 37 AGM0008 2 A00P000 4 A000505 8 A000506 4	AF05306	7
AG0P000 2 AG0D008 37 AGM0008 2 A00P000 4 A000505 8 A000506 4	AF05307	7
AG00008 37 AGM0008 2 A000000 4 A000505 8 A000506 4	AF05308	3
AGM0008 2 A000000 4 A000505 8 A000506 4	AGOP000	2
A00P000 4 A000505 8 A000506 4	AGDDDDB	37
A000505 8 A000506 4	AGM0008	2
A000506 4	ADDPODD	4
	A000505	8
4-4 7	A000506	4
707818 215	totals	215

FILE(S) SIZE(BLOCKS)

FILE(S) SIZE(BLOCKS)

OBJECT MODULE- FILE SIZE STATISTICS(UNIT 8)

system	368
AADPDDD	7
00000AA	10
AF0P000	62
AF05305	17
AF05306	20
AF05307	20
AF05308	8
AGOPODO	7
AG00008	122
AGM0008	8
ADDPDDD	13
A000505	26
A000506	11
totals	699

Table E-5. ACPS Compilation Comparator Formatted Ada File (Concluded)

	LOAD	MODULE	- FI	E SIZE	STATIS	TICSIUNI	(8 T
FILE(S)	SIZEIBL	OCKS)				
AADDDDO		59					
AF05308		64					
AG00008		68					
AGMODOS	3	67					
AD0050	6	64					
totals		322					

Table E-6. ACPS Compilation Comparator Formatted JOVIAL File

CO	MPILATION	- SHOW ST	ATUS STA	TISTICS(U	VIT 71
FILES(S)	HALL-CLOCK	CPU-TIME	BUFIO	DIRID PAG	GE-FAULTS
system	89.76	68.98	319	302	6410
JA0P000	9.65	5.07	73	56	1064
JA00000	10.47	6.05	78	57	1323
JF0P000	21.81	17.00	73	62	1093
JF05305	21.28	12.68	149	105	2472
JF05306	22.69	13.99	150	109	3071
JF05307	22.87	13.80	149	106	2537
JF05308	9.80	5.67	82	51	1386
J GOPD00	9.35	5.17	73	54	1120
J G00008	75.97	48.44	470	328	8218
JGM0008	10.23	5.78	82	50	1326
J00P000	10.43	6.10	73	52	1293
J000505	15.72	11.08	77	55	1436
J000506	11.97	7.40	77	51	1212
totals	342.00	227.21	1925	1438	33961
L	INKAGE EDIT	- SHOW ST	TATUS ST	ATISTICS(NIT 7)
FILES(S)	HALL-CLOCK	CPU-TIME	BUFIO	DIRIO PA	GE-FAULTS
1400000	9.35	4.40	79	140	696
JA00000	7.33 9.42	5.01	95	137	742
JF05308	9.24	4.97	90	137	747
300008 300008	9.24	4.84	90	137	722
- - · · ·	7.24 8.62	4.44	74	127	828
J000506	0.02	₩. →	• •	•••	2.30
totals	45.87	23.66	428	678	3735

Table E-6. ACPS Compilation Comparator Formatted JOVIAL File (Continued)

SOURCE MODULE- FILE SIZE STATISTICS(UNIT 7)

system	104
JADPODO	2
JA00000	3
JF0P000	21
JF05305	7
JF05306	9
JF05307	9
JF05308	3
JG0P000	2
JG00008	43
JGM0008	2
J00P000	4
J000505	8
J000506	4
totals	221

FILE(S) SIZE(BLOCKS)

OBJECT MODULE- FILE SIZE STATISTICS (UNIT 7)

system	52	
JAOPOOO	3	
JA00000	2	
JF0P000	23	
JF05305	5	
JF05306	6	
JF05307	6	
JF05308	1	
JG0P000	3	
J600008	20	
JGM0008	1	
J00P000	4	
J000505	5	
J 000506	2	
totals	133	

FILE(S) SIZE(BLOCKS)

Table E-6. ACPS Compilation Comparator Formatted JOVIAL File (Concluded)

LOAD MODULE - FILE SIZE STATISTICS(UNIT 7)

FILE(S)	SIZE(BLOCKS)
JA00000	29
JF05308	31
JG00008	32
JGM0008	32
J000506	31
totals	155

Table E-7. ACPS Compilation Comparator Comparison Output File

The Aerospace Corporation

```
input test identification(< 55 characters):
>
VAX Ada vs ECSPO JOVIAL(opt on)
which operating system(vms,...)?
>
vms
```

Table E-7. ACPS Compilation Comparator Comparison Output File (Continued)

VAX	Ade	VS	ECSPO	JOVIAL	leef	en l

FILES(S)	MALL-CLOCK	CPU-TIME	BUFIO	DIRIO	PAGE-FAULTS
system	1.35	1.44	0.48	0.79	2.13
AADPOOD	0.76	0.71	0.47	0.88	1.86
GOOGGAA	0.89	0.78	0.58	1.05	. 1.72
AFOPODO	0.54	0.68	0.51	0.94	2.31
AF05305	0.76	0.64	0.50	1.08	1.28
AF05306	0.71	0.43	0.49	0.92	1.05
AF05307	0.72	0.45	0.49	0.90	1.30
AF05308	0.90	0.74	0.54	1.18	1.56
ACOP000	0.83	0.74	0.51	0.98	2.30
AGDODDS	0.83	0.80	0.51	1.02	1.91
AGMODDA	0.84	0.76	0.51	1.18	
ADOPOOD	0.79	0.48	0.51		1.72
A000505	1.33	1.27		1.21	1.89
AD00506			0.95	1.98	2.53
W000206	0.80	0.74	0.60	1.22	3 90

COMPILATION totals:

COMPILATION COMPARISONS/UNIT 8 / UNIT 71

Table E-7. ACPS Compilation Comparator Comparison Output File (Continued)

VAX Ade vs ECSPO JOVIAL(ept en)

FILES(S)	MALL-CLOCK	CPU-TINE	BUFIO	DIRIO PAG	e-faults
AA00000	1.88	0.39	0.67	0.35	0.70
AF05308	1.96	0.41	0.75	0.42	0.45
AG00008	2.03	0.41	0.66	0.36	9.%
A0H0006	1.98	0.40	0.67	0.37	0.68
A000504	2.63	0.41	0.80	0.39	0.40

LINKAGE EDIT totals:

1.98 0.40 0.71 0.38 0.71
LINKAGE EDIT COMPARISONS(UNIT 8 / UNIT 7)

Table E-7. ACPS Compilation Comparator Comparison Output File (Continued)

VAX Ade vs ECSPO JOVIALIEPT ent

ATCE (2)	SIZEIBLUCKSI	
system	1.05	
AADPDDD	1.00	
AADODDD	1.33	
AF 0000	0.95	
AF05305	0.86	
AF05304	0.78	
AF05307	0.78	
AF05308	1.00	
AGOPOOO	1.00	
AG00008	0.86	
ACHOODS	1.00	
ADOPODO	1.00	
A000505	1.00	
AD00506	1.00	

SOURCE MODULE totals:

0.47

SOURCE MODULE FILE SIZE COMPARISONSIUNIT 6 / UNIT 71

Table E-7. ACPS Compilation Comparator Comparison Output File (Continued)

VAX Ade vs ECSPO JOVIALIEP! en)

FILE(S)	SIZEIBLOCK
sys ton	7.08
AADPOOD	2.33
AADDDDD	5.00
AFOPDDO	2.70
AF05305	3.40
AF05304	3.33
AF05307	3.33
AF05308	8.00
AGOPODO	2.33
AC00008	4.10
ACHDODS	8.00
A00P000	3.25
A000505	5.20
A000504	5.50

DBJECT MODULE totals:

5.26

Table E-7. ACPS Compilation Comparator Comparison Output File (Concluded)

VAX Adm vs ECSPO JOVIALIEPT ent

V	- 40 603-0 3047461401 40
FILEISI	SIZEI BLOCKS 1
AA00000	2.03
AF05308	2.06
ACOCCO	2.13
AGM0008	2.04
AD00506 -	5.06
LOAD MODULE	totals:

Table E-8. DEC VAX Ada Run-time Test Statistic File

Morking Set			Autonia 21							
	MC-1906 04:53:21.39	Elapsod	CPU : 0	00:17:37.75	B u11.		2922 Cur. 807423	277	850 _ Spen files	. :
<a400000 0.0000<="" td=""><td>-1</td><td>•</td><td>•</td><td>•</td><td>3</td><td>317440</td><td></td><td>-</td><td>-</td><td></td></a400000>	-1	•	•	•	3	317440		-	-	
<aa00000 3.3194<="" td=""><td>his 97778 1</td><td>838</td><td>•</td><td>•</td><td>3</td><td>317440</td><td>807423</td><td>277</td><td>•</td><td></td></aa00000>	his 97778 1	838	•	•	3	317440	807423	277	•	
<amirodo 9.0002<="" td=""><td></td><td>50</td><td>•</td><td>•</td><td>3</td><td>317440</td><td>007423</td><td>277</td><td>**</td><td></td></amirodo>		50	•	•	3	317440	007423	277	**	
Status en 24-1	.263	£ lapos	(PV : 0	18.847141	bull.			46 . 1	ese _ epen file	
<4F85385 9.8880	000 1 -1	•	•	•	3	310476	60 7423	277	**	
<af95305 3.55*<="" td=""><td></td><td>354</td><td>•</td><td>•</td><td>8</td><td>330476</td><td>607423</td><td>277</td><td>99</td><td></td></af95305>		354	•	•	8	330476	60 7423	277	99	
4AF95304 9.0000		•	•	•	3	310476	807423	277	••	
44705300 B.7394	-3 140 74740 !	B73	•	•	3	\$10776	80 7423	277	**	
<af\$3300 2.179<="" td=""><td>143 76716</td><td>217</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td>•</td><td></td></af\$3300>	143 76716	217	•	•	•	•	•	•	•	
1 <af05307 0.0000<="" td=""><td>-1 960 1</td><td>•</td><td></td><td></td><td>3</td><td>310476</td><td>887423</td><td>277</td><td>••</td><td></td></af05307>	-1 960 1	•			3	310476	887423	277	••	
3	-1	162	•			210974	00 7423	-277	••	
<af05307 b.819<="" td=""><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td>•</td><td></td></af05307>					•				•	
<4F\$\$307 2.25*	169 76998 -1	224	•	•	•	•	•	•	. •	
<a500000 0.000<="" td=""><td>-</td><td>•</td><td>• 1</td><td>•</td><td>3</td><td>344500</td><td>807423</td><td>323</td><td>45</td><td></td></a500000>	-	•	• 1	•	3	344500	80 7423	323	45	
<a800000 1.419<="" td=""><td>103 2270</td><td>342 2</td><td>BS (</td><td>•</td><td>3</td><td>827340</td><td>807423</td><td>943</td><td>56</td><td></td></a800000>	103 2270	342 2	BS (•	3	827340	807423	943	56	
<4070000 0.001		50	35 (•	3	395776	00 7123	365	302	
2 <4800557 0.000	3527 3231 900 1	•	•	•	3	319400	00 7N23	297	•	
2 <0000507 0.439	-) %) 9776	45	•	•		319000	80 MZ3	297	•	
com themsel tim	o in above test is (an abart to	100 time	sleek granule	rity)					
<4000506 0.000		•	•	• •	3	\$1 ****	60 7423	297	•	
<4000500 3.75*		373	•	• •	3	\$1	90 7423	297	••	
<4600 000 B.544		033 2	ee 10	• 100	200	300	100	300	100	
Stotus en 24-	-} 966-1986 @::84:81.21	((Imper	d CPU 1 0	00:30:20.39	wii.	1/0 1	\$144 Car.	⇔ . 1 '	ese em file	1 20

Table E-9. ECSPO JOVIAL Run-time Test Statistic File

	ini 1+ 650			nt= 2500							
Adjustment disabled											
\$101us en 20-9((-)			Elepsed CPU		10:12.63	Buff.	1/0 :		F. W. 1		Open files :
<ja90000 0.000000<="" td=""><td>1</td><td>•</td><td>•</td><td>•</td><td>•</td><td>3</td><td>1192%</td><td>805887</td><td>259</td><td>47</td><td></td></ja90000>	1	•	•	•	•	3	1192%	805887	259	47	
1 22											
<pre><_A00000 1.930000</pre>	99998	193	•	•	•	3	1192%	805887	257	67	
						_					
CJAMOSO 0.000201	•	20	•	•		1	119296	005087	257	47	
2 210	214		-	-	•	•		•••••		•	
JOVIAL STOP TERMINA	• • •	14									
Status on 24-DEC-19			Elected CPU		10:14.95	B. 44	1/0:	3273 C.		850	411 ·
			CTOMPSON CAN						F. W. 1		Open files :
<	1	•	•	•	•	3	150750	805887	270	49	
3 359			_	_	_	_					
√795305 2.570000	P-176	257	•	•	•	3	120320	005067	270	69	
		_	_	_	_	_					
<#P85394 0.000000	1	•	•	•	•	3	150750	905887	270	69	
1 250											
CF05304 3.020000	7499	302	•	•	•	8	120320	805067	270	49	
CJ725304 0.450000	74998	45	•	•	•		•			•	
1 91	• • • •		•	•	•	_	•	•	•	•	
were alapsed time in a						4					
C# 05307 0.000000	i					_					
	•	•	•	•	•	3	320320	805007	270	49	
1 144			_	_	_	_					
4785387 E.848088	74 996	204	•	•	•	3	750250	005487	270	69	
<.J755307 0.209999	74990	29	•	•	•	•	•	•	•	•	
1 40										-	
sees elegand time in a	shows tost	la des et	metic 100 ti	ann alasi	- armulari	4-1					
JOVIAL STOP TERMINA				_, ,,,							
1,500000 0.000000	1		-	•		3	131072	005087	272	50	
4,0000	•	•	•	•	•	•	251416	-	474	_	
			_	_	_	_	****				
<j00000 0.050000<="" td=""><td>32%</td><td>85</td><td>•</td><td>•</td><td>•</td><td>3</td><td>131072</td><td>905067</td><td>272</td><td>50</td><td></td></j00000>	32%	85	•	•	•	3	131072	905067	272	50	
						_					
elepsed time in (wrll< 100 li	ant eyes	r Branchjari	ty)					
JOVIAL STOP TERRINA	LTION COOL I	ls	•								
<.5000040 D.000040	•	10	•	•	•	3	131072	805887	250	57	
Z 23%	041										
JOVIAL STOP TERRINA	3003 48174	12	•							•	
<.3000507 0.000000	1	•	•		•	3	120320	001087	249	41	
1 61	_	•	~	•	_	•					
<.U000507 0.490000	9996	49	•	•	•	1	120320	005007	247	61	
	****	••	•	•	•	•	200710	•		••	
area alamad tem in .						A					
erre classed time in a	. 1981		_	— 1 6100	/ Bearings						
<.J000506 0.000000	1	•	•	•	•	3	756250	005067	267	61	
1 705											
<pre><.poopsee 2.780000</pre>	9998	270	•	•	•	8	750250	005067	269	61	
<.500000 4.020904	•	462	100	200	100	100	100	100	100	100	
2 670											
JOVIAL STOP TERMIN	1002 MOLTA	15	•								
Status on P4-DCC-1			Eleosed CPU		10:33.14	mill.	1/0 :	3428 C	F. W. 1	850	Com files :

Table E-10. CEXEC Formatted VAX Ada Input File without VMS Statistics

VAX	Ada vs ECS	PO JOVIALIOP	on, no VMS	BEN	CHMARK TES	T RESULTS:	ADA	UNIT(8)
TEST-ID	HALL-TIME	ITERATIONS	RUN STATI	(STICS(0#=NC	T APPLICAB	LE)		
AA00000	0.000000	1	0*	0*	0*	0=	0*	
AAOOOOD	3.319946	99998	0*	0*	O#	0*	0=	
DOCOMAA	0.000213	0	263	214	0*	0*	0=	
AF05305	0.00000	1	0*	0*	0*	0=	0=	
AF05305	1.070055	74998	0*	0*	0#	0=	0=	
AF05306	0.000000	1	0*	0*	0#	0#	0=	
AF05306	3.250047	74998	0*	0*	0*	0#	0=	
AFS5306	2.179993	74998	0#	0*	0*	0=	0=	
AF05307	0.000000	1	0*	0*	0#	0=	0=	
AF05307	3.330003	74998	0=	0=	0#	0#	0*	
AFS5307	2.259949	74998	0*	0*	0*	0*	0*	
AG00008	0.000000	1	0*	0*	0#	0=	0=	
AG00008	1.376889	1298	0#	0*	0=	0*	. 0*	
AGM0008	0.000998	0	3264	1017	0*	0*	0=	
A000507	0.000000	1	0*	0=	0#	0*	0=	
A000507	0.108006	9998	0*	0*	0=	0=	0=	
**** 01	apsed time	in above test	t is too sh	ort				
A000508	0.000000	1	0=	0=	0#	0*	0=	
A000508	3.428014	9998	0=	0*	0#	0*	0*	
A0C0508	8.546476	0	0#	0*	0=	0*	0=	

Table E-11. CEXEC Formatted ECSPO JOVIAL Input File without VMS Statistics

VAX	Ada vs EC	SPO JOVIAL(opt	on, no VMS)		BENCHMARK	TEST	RESULTS:	JOVIAL	UNITE	7)
TEST-ID	HALL-TIME	ITERATIONS	RUN STATIST	ics(o	==NOT APPL	CABL	E)			
JA00000	0.000000	1	22	0*	0#		0#	0=		
JA00000	1.930000	99998	0#	0#	0=		0#	0*		
JAHOODO	0.000203	0	218	214	0*		0*	0*		
JF05305	0.000000	1	137	0#	0*		0=	0*		
JF05305	1.122510	74998	0#	0#	0#		0=	0=		
JF05306	0.000000	1	228	0*	0#		0*	0*		
JF05306	1.572510	74998	0#	0*	O#		0#	0#		
JFS5306	0.450000	74998	91	D#	0*		0#	0*		
**** 0]	apsed time	in above test	is too short							
JF05307	0.000000	1	227	0*	0#		0*	0#		
JF05307	1.412510	74998	0#	0*	0*		0#	0#		
JFS5307	0.289999	74998	90	O#	0#		0*	0*		
**** 01	apsed time	in above test	is too short	;						
JG00008	0.000000	1	0#	0*	D#		0=	D#		
J G00008	0.824948	1298	0#	0#	D#		0*	0*		
**** 01	apsed time	in above test	is too short	:		,				
JGM0008	0.000637	0	2178	627	0#		0#	0#		
J000507	0.000000	1	59	0*	D#		O#	04		
J000507	0.497035	9998	0#	O#	0#		0*	0*		
	•	in above test		;						
J000508	0.000000	1	683	D#	_		O#	0*		
J000508	2.587035	•	0#	0*	O#		0*	0=		
J0C0508	4.028986	Ŏ	870	0*	0#		0*	0=		

The Aerospace Corporation

```
read operating system dependent status records(yes/no)?
no
read operating system dependent fields(yes/no)?
>
no
input test title
>
VAX Ada vs ECSPO JOVIAL(opt on,no VMS)
input minimum test time in seconds(e.g. 1.1):
>
1.0
```

Table E-12. CEXEC Comparison Output File without VMS Statistics (Continued)

```
VAX Ada vs ECSPO JOVIALIERI enime VIS)
                                                                   BENCHMARK TEST COMPARISON: UNIT BIADA
                                                                                                                        I / WIT TIJOVIAL I
TEST-ID MALL-TIME RUN STATISTICS(1.00=NOT APPLICABLE)
                                              1.00=
1.00=
1.00=
                                                        1.00°
1.00°
1.00°
AA00000
                    1.00 1.000
                                     1.00-
                                                                 1.00
                                                                 1.00*
AA00000
                    1.72
                            1.00-
                                     1.00-
AAMODOO
                           1.21
                                     1.00
                    1.05
                           1.90*
                                    1.00=
1.00=
1.00=
                                                                1.00=
4705305
                   1.00
                                                       1.00=
1.00=
1.00=
                                              1.00-
AF05305
AF05304
                    1.00
                            1.00-
                                              1.00-
                                                                 1.00-
AF05304
                    2.07
                                              1.00-
                   4.04 1.000
1.00 1.000
2.36 1.000
7.79 1.000
AF$5304
                                     1.00-
                                              1.00-
                                                        1.00-
                                    1.00=
1.00=
1.00=
1.00=
                                              1.00=
1.00=
1.00=
                                                       1.00=
                                                                1.00=
1.00=
1.00=
AF05307
AF05307
AF$5307
                                                       1.00
                                                                1.000
1.000
1.000
1.000
1.000
ACCOCCE
                    1.00 1.00=
                                              1.00-
                                                        1.00-
AC00008
                    1.67
                           1.00-
                                              1.000
                                                        1.90-
                                             1.00=
1.00=
1.00=
                    1.57 1.50
ACM0008
                   1.57
1.00 1.00-
0.22 1.00-
1.00 1.00-
                                     1.62
                                                        1.90-
A000507
                                                        1.00°
1.00°
1.00°
                                    1.00=
1.00=
1.00=
A000507
A000508
A000508
                    1.33
                            1.00-
                                              1.00-
                                                        1.000
                                                                 1.00-
ADC0508
 test comparison totals:
                                                       1.00°
1.00°
1.00°
  micro
                    1.57 1.50
                                     1.62
                                              1.000
                                    1.00=
1.00=
1.00=
1 iter
>1 iter
diff.
                   1.00 1.00=
1.52 1.00=
6.00 1.00=
                                              1.00-
                                                                 1.00=
1.00=
1.00=
```

Table E-13. EXEC Formatted VAX Ada Input File with VMS Statistics

VA	Ada vs ECSI	O JOVIALISM	en)		BENCHMARK 1	EST RESULT	S: ADA	-				
TEST-10	MALL-TIPE 1	TERATIONS	RUN STAT	TISTICS:0	PAGEFLT	ABLE 1 BUFIO	BIRID	VIS STA FILENT	TISTICS POSPACE	PISPACE	PPGENT	GPGCNT
4400000	0.000000	1	•	••	•	••	90					
A400000	3.31994	99998	••	D ••	•	•	•	3	317440	007423	277	76
AAH0000	0.000213	•	263	332 214	•	•	9	3	317440	807423	277	**
AFDS305	9.000000	1		50	9	•	•	3	317440	007423	277	**
AF05305	1.070055	74.998	•	9		•	Ĭ	•	1534	•	•	1
AF05304			_	106	•	94	•	•	2534	•	•	1
	0.900000	1	••	9*	•	•	•	•	2534	•	•	1
AF05304	1.250047	74198	••	325	•	•	94		2534	•		1
AF35304	2.179993	74.998	•	217	•	•	•	•		•	•	-
AF05307	9.999000	1	•	•	•	-	•	-	_	_	•	•
AF05307	1.330003	74998	94	9=	•	•	-	•	2534	•	•	1
AFS5307	2.259949	74998	•	334	•	•	•	•	1534	•	•	1
AG00008		1	•	226 90	•	•	•	•	•	•	•	•
AC00008	1.376889	1296	•		6	9-	•	•	70048	•	44	-33
A@10008	9.000116	•	3244	138 1017	255	•	•	•	207720	•	244	0
A000507	0.00000	1	80	0	15		9-	•	70334	•	78	•
A000507	0.100004	7776	•	Ĭ	•	•	ě	•	2048	•	50	-10
		-	_	90 32	•	•	•	•	2046	•	20	-10
AD00508	0.000000	n above test	11 Teo st	wrt De		-						
	7.73000	•	-		•	•	9-	•	2048		20	-10
A000508	3.428014	9996	9+	•	•	-	9-	•		•	#0	-10
		-	-	342	ě	ě	•	•	2048	•	20	-10
ACCOSOS	8.546476	•	•	•	•	•	••	•		•		
				033	100	100	190	190	100	100	100	100

Table E-14. CEXEC Formatted ECSPO JOVIAL Output File with VMS Statistics

VA	Ade vs ECSP	O JOVIALISM	4 1		BENCHMARK T	EST RESULT	S: JOVIAL	(UNIT 7)				
TF\$T-10	MALL-TIME I	TERATIONS	BUN STAT	1127775104	-NOT APPLIC	ABIR I		WE STA	******			
••••	······			CPUTIN	PAGEFLT	BUFIO	BIRIO	FILENT	POSPACE	PISPACE	PPGCNT	SPECNT
JA0000 0	9.900000	3	55	9-	9-	••	••	3	119296	805887	257	47
JASODDO	1.930000	77778	•	90	•	••	•	•		40366 7	237	
JA110000	0.000203	•	218	193 214	•	•	9	3	1192%	805887	251	67
		_		20	•	Ĭ	ě	3	229296	805887	259	67
JF05305	0.00000	3	137	0*		•	9*	•	1024		11	2
JF05305	1.122510	74 776	00		94	•	•	_		_		
JF 05304	0.00000	1	228	113 04	0 0=	•	94	•	1084	•	11	2
JF05304	1.572510	74198		9	9	•	Ď.	•	3024	•	21	5
Jr 43300	1.5/2510	~~~	•	150		••	9*	•	1024	•	21	2
J7 \$5304	0.450000	74.778	. 91	45	•	9*	•				•	_
	lapsed time is	n above test		wrt ~	•	•	•	•	•		•	•
JF 05307	9.90000 0	1	227	•	•	•	9-		2024	•	21	
JF05307	1.412510	74778	94	90	9=	04	•	•		•		•
JF\$\$307	0.207777	74776	90	342	•	94	•	•	1024	•	21	2
				29	•	•	•	•	•	•	•	•
	lapsed time i	u apano jari					_					
JG00000	9.000000	7	••	•	6	94	•		11776	•	13	-9
JE000008	0.824948	1276	•	94	9-	0=	•	•	•		•	
	lapsed time in		is too s	83	•	•	•	•	11776	0	23	-9
JEM0008	0.000437		2178	` 627			90					
		•		-10	4	•	•	•	11776	•	-1	-10
J000507	. 000000	1	59	•	•	•	•		1024	•	10	-4
J000507	0.497035	****	•	94	•	•	•	•	4014	•		
	lopsed time in	n show test	is too et		•	•	•	•	3024	•	10	
J000508	0.00000	1	683			94	94					
5000500	0.00000	-		•	•	•	•	•	1024	•	10	-6
J000508	2.587035	9998	94	94	0.	90	•	•	555	_	•-	_
				259	•	•	•	•	1014	0	30	-6
J000508	4.028986	•	670	•	•	0-	90					
				402	100	100	200	100	100	100	100	100

Table E-15. CEXEC Comparison Output File with VMS Statistics

```
read operating system dependent status records(yes/no)?

yes
read operating system dependent fields(yes/no)?

yes
subtract test routine overhead from operating system stats(yes/no)?

yes
which operating system(vms,...)?

vms
input test title

VAX Ada vs ECSPO JOVIAL(opt on)
input minimum test time in seconds(e.g. 1.1):

> 1.0
```

Table E-15. CEXEC Comparison Output File with VMS Statistics (Continued)

VAX Ade vs ECSPO JOVIALIEPT and				BEN	HPLANK TES	T COMPA	A15046:	100T 814	I AG	/ UNIT	71 JOVIAL	1			
TEST-10	MALL-TIME	RUN ST	ATISTIC	S(1.00	-	LICABLE	1.1			VOIS STA	TISTICS				
							CPUTIH I	PAGEFLT	BUFIO	DIRIO		POSPACE	PISPACE	PPOCNT	BPCCNT
4400000	1.00	1.00-	1.00-	1.00-	1.00-	1.00-	1.00	1.00	1.00	1.00	1.00	2.66	1.90	1.07	1.44
AADOOO D	1.72	1.00-	1.00*	1.00-	1.00-	1.00-	1.00	1.00	1.00	1.00	1.00	2.66	1.00	1.07	1.44
AAMODOO	1.05	1.21	1.00	1.00*	1.00-	1.00=	2.50	1.00	1.00	1.00	1.00	2.66	1.00	1.07	1.44
AF05305	1.00	1.00*	1.00-	1.00-	1.00-	1.00+	1.00	1.00	1.00	1.00	1.00	1.50	1.00	0.01	0.50
AF05305	0.95	1.00*	1.00*	1.00=	1.000	1.00-	1.00	1.00	1.00	1.00	1.00	1.50	1.00	0.01	0.50
AF05304	1.00	1.80-	1.00*	1.00-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.50	1.00	0.01	0.50
AF0\$304	2.07	1.00+	1.00	1.00	1.00	1.00-	1.00	1.00	1.00	1.00	1.00	1.50	1.00	0.01	9.50
AF\$\$304	4.84	1.00+	1.00-	1.00*	1.00-	1.00*	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
AF05307	1.00	1.00+	1.00-	1.00*	1.00-	1.00-	1.00	1.00	1.00	1.00	1.00	1.50	1.00	0.01	0.50
AF05307	2.36	1.00-	1.00-	1.000	1.000	1.00=	1.00	1.00	1.00	1.00	1.00	1.50	1.00	0.01	0.50
4755307	7.79	1.800	1.90*	1.00-	1.00-	1.00-	1.00	1.00	1.00	1.00	1.90	1.00	1.00	1.00	1.80
ACCOCCA	1.00	1.00	1.00*	1.00	1.90•	1.00-	1.00	1.50	1.90	1.00	1.00	4.70	1.00	1.54	1.00
ACCCCC	1.67	1.90-	1.00-	1.00-	1.00-	1.00-	1.00	1.00	1.00	1.00	1.00	17.03			
AGHOOGE	1.57	1.50	1.62	1.00-	1.90-	1.90-	1.00	3.75		1.00			1.00	80.44	1.00
AD00507	1.00	1.000	1.90-	1.00-	1.00	1.000	1.00		3.90		1.00	4.45		1.00	99,99
A000507	9.22	1.00-	1.00-	1.00-	1.00-	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00	1.00
A000508	1.00	1.00-	1.00-	1.00-	1.00-			1.00	1.00	1.00	1.00	2.00		2.00	1.00
A000508	1.33	1.80*	1.00-	1.00-	1.80+	1.00-	1.00	1.00	1.00	1.00	1.00	2.00		2.00	1.00
						1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00	1.00
ADC0506	2.12	1.80-	1.00*	1.00-	1.00-	1.000	2.07	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
test ee	morison to	tols:													
micro	1.57	1.50	1.62	1.00-	1.000	1.00-	1.00	3.75	1.00	1.00	1.00	4.45	1.00	1.00	99,99
l iter	1.00	1.00•	1.00-	1.00-	1.00-	1.80-	1.00	1.50	1.00	1.00	1.00	5.10	1.00	1.30	1.00
>l iter	1.52	1.00-	1.90-	1.00-	1.00-	1.00-	1.00	1.00	1.00	1.00	1.00	12.%	1.00	4.64	1.00
-4:44	4 88														

Table E-15. CEXEC Comparison Output File with VMS Statistics (Continued)

		ECSPO JOVIA	•	BUFIO	VMS DIRIO PAG	SHON STATUS E-FAULTS	STATISTICS
7	1	6.01	4.12	57	34	736	
8	1	7.68	5.77	59	34	792	
7	2	23.81	18.19	155	93	1896	
8	2	32.35	26.87	163	93	2580	

Table E-15. CEXEC Comparison Output File with VMS Statistics (Concluded)

VAX Ada vs ECSPO JOVIALISH en)					VIG 3H	DH STATUS	COPARISONS	: UNIT BIAD	T I \ MG.	T TIJOVIAL	1
NAPER HAL	r-crock c	PU-TIPE	BUT20	DIRIO PAI	DE-FAULTS						
1 2	1.20 1.36	1.40 1.48	1.04 1.05	1.00 1.00	1.00 1.34						

APPENDIX F

TEST DESCRIPTIONS

This appendix describes the function of every ACPS test. These test descriptions are contained in Table F-1 and are ordered according to the ACPS test name sorting conventions described in Section E.3. Many entries in the TEST NAME field of Table F-1 are followed by a comma and an alphabetic character (C, I, M, or S) to indicate that an additional version of the test exists. These additional test names contain this character as the third character in the test name. For example, the test description entry AF03501, S corresponds to two tests: AF03501 and AFS3501. For some tests (e.g., AFD520K) an asterisk is placed to the right of the test name. This signifies that the test is VAX specific, and the test program is not placed on the ACPS ANSI formatted delivery tape. The VERSIONS field of Table F-1 lists any other versions of a test based on test type. For example, the following versions of test AF03500 exist within the ACPS: CF03500, EF03500, SF03500, TF03500, JF03500, FF03500. The test description field in Table F-1 describes what is being measured in each test. The descriptions were derived from commentary prologue contained in each test file. The descriptions were condensed, and corrected for grammatical and descriptive errors. However, these corrections were not made to the corresponding test file prologues.

Table F-1 ACPS Test Descriptions

TEST NAME	VERSIONS	DESCRIPTION
AA00000,M	C/E/S/T/J/F	establishes the run time system dependent statistic overhead of support software(oursys,ourspc,ourtyp, ourdmp). The test should be the first test run in any test sequence.
AF03500	C/E/S/T/J/F	
AF03501,S	C/E/S/T/J	allocation/deallocation of 10 integer variables declared in a procedure.
AF03502,S	C/E/S/T/J/F	
AF03503,S	C/E/S/T/J/F	allocation/deallocation/initialization to non-zero constants of 10 integer variables declared in a procedure.
AF03504,S	C/E/S/T/J/F	
AF03509,S	C/E/S/T	allocation/deallocation of 18 integer variables declared in a block statement.
AF03510,S	C/E/S/T	allocation/deallocation/initialization to 0 of 10 integer variables declared in a block statement.
AF03511,S	C/E/S/T	allocation/deallocation/initialization to non-zero constants of 10 integer variables declared in a block statement.
AF03512,S	C/E/S/T	allocation/deallocation/initialization to global variables of 10 integer variables declared in a block
AF03513,S	C/E/S/T/J	statement. allocation/deallocation of 10 string variables declared
AF03514,S	C/E/S/T/J/F	in a procedure. allocation/deallocation/initialization of 10 string variables declared in a procedure.
AF03517,S	C/E/S/T	allocation/deallocation of 10 string variables declared in a block statement.
AF03518,S	C/E/S/T	allocation/deallocation/initialization to a constant of 10 string variables declared in a block statement.
AF03550	C/E/S/T/J	execution of PRED, SUCC functions for enumeration type MDNTHS in 10 statements of the form: TMPESi := months'X(
AFD3551	C/E/S/T/J	TMPESj); where X is PRED or SUCC. execution of PRED, SUCC functions for enumeration type REP_MONTHS in 10 statements of the form: TMPERi :=
AF03600	C/E/S/T/J/F	rep_months'X(TMPERj); where X is PRED or SUCC. test loop overhead for tests: AF03601,AF03602,AF03603, AF03604,AF03605,AF03606, AF03607,AF03608,AF03609, AF03610, AF03611,AF03612,AF03613,AF03614,AF03615, AF03616, AF03617,AF03618,AF03619.
AF03601,S	C/E/S/T/J	allocation/deallocation of 10 1 dimensional(10) integer arrays declared in a procedure.
AF03602,S	C/E/S/T/J/F	allocation/deallocation/initialization to 0 of 10 1 dimensional(10) integer arrays declared in a procedure.
AF03603,S	C/E/S/T/J/F	allocation/deallocation/initialization to non-zero constants of 10 l dimensional(10) integer arrays declared in a procedure.
AF03604,S	C/E/S/T/J	allocation/deallocation of 10 2 dimensional(3,3) integer arrays declared in a procedure.
AF03605,S	C/E/S/T/J/F	allocation/deallocation/initialization to 0 of 10 2 dimensional(3,3) integer arrays declared in a procedure.
AF03606,S	C/E/S/T/J/F	allocation/deallocation/initialization to non-zero constants of 10 2 dimensional(3,3) integer arrays
AF03607,S	C/E/S/T/J	declared in a procedure. allocation/deallocation of 10 3 dimensional(3,3,3)
AF03608,S	C/E/S/T/J/F	<pre>integer arrays declared in a procedure. allocation/deallocation/initialization to 0 of 10 3 dimensional(3,3,3) integer arrays declared in a</pre>
AF03609,S	C/E/S/T/J/F	procedure. allocation/deallocation/initialization to non-zero

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AF03610,S	C/E/S/T/J	constants of 10 3 dimensional(3,3,3) integer arrays declared in a procedure. allocation/deallocation of 10 3 dimensional(3,3,3) integer arrays declared in a procedure. The variables are not referenced and should not be allocated (compare to AF03607).
AF03611,S	C/E/S/T	allocation/deallocation of 10 1 dimensional(10) integer
AF03612,S	C/E/S/T	arrays declared in a block statement. allocation/deallocation/initialization to 0 of 10 l dimensional(10) integer arrays declared in a block
AF03613,S	C/E/S/T	<pre>statement. allocation/deallocation/initialization to non-zero constants of 10 1 dimensional(10) integer arrays declared in a block statement.</pre>
AF03614,S	C/E/S/T	allocation/deallocation of 10 2 dimensional(3,3) integer
AF03615,S	C/E/S/J	arrays declared in a block statement. allocation/deallocation/initialization to 0 of 10 2 dimensional(3,3) integer arrays declared in a block statement.
AF03616,S	C/E/S/T	allocation/deallocation/initialization to non-zero constants of 10 2 dimensional(3,3) integer arrays declared in a block statement.
AF03617,S	C/E/S/T	allocation/deallocation of 10 3 dimensional(3,3,3) integer arrays declared in a block statement.
AF03618,S	C/E/S/T	allocation/deallocation/initialization to 0 of 10 3 dimensional(3,3,3) integer arrays declared in a block statement.
AF03619,S	C/E/S/T	allocation/deallocation/initialization to non-zero constants of 10 3 dimensional(3,3,3) integer arrays declared in a block statement.
AF03630	C/E/S/T	test loop overhead for tests: AF03631,AF03632,AF03633, AF03634,AF03635,AF03636, AF03637,AF03638,AF03639, AF03641,AF03642,AF03643,AF03644,AF03645,AF03646, AF03647,AF03648,AF03649.
AF03631,S	C/E/S/T	allocation/deallocation of 10 dynamically sized l dimensional(10) integer arrays declared in a procedure.
AF03632,S	C/E/S/T	allocation/deallocation/initialization to 0 of 10 dynamically mized 1 dimensional(10) integer arrays declared in a procedure.
AF03633,S	C/E/S/T	allocation/deallocation/initialization to non-zero constants of 10 dynamically sized 1 dimensional(10) integer arrays declared in a procedure.
AF03634,S	C/E/S/T	allocation/deallocation of 10 dynamically sized 2 dimensional(3,3) integer arrays declared in a procedure.
AF03635,S	C/E/S/T	allocation/deallocation/initialization to 0 of 10 dynamically sized 2 dimensional(3,3) integer arrays declared in a procedure.
AF03636,S	C/E/S/T	allocation/deallocation/initialization to non-zero constants of 10 dynamically sized 2 dimensional(3,3) integer arrays declared in a procedure.
AF03637,S	C/E/S/T	allocation/deallocation of 10 dynamically sized 3 dimensional(3,3,3) integer arrays declared in a procedure.
AF03638,S	C/E/S/T	allocation/deallocation/initialization to 0 of 10 dynamically sized 3 dimensional(3,3,3) integer arrays declared in a procedure.
AF03639,S	C/E/S/T	allocation/deallocation/initialization to non-zero constants of 10 dynamically sized 3 dimensional(3,3,3) integer arrays declared in a procedure.
AF03641,S	C/E/S/T	allocation/deallocation of 10 dynamically sized l dimensional(10) integer arrays declared in a block statement.
AF03642,S	C/E/S/T	allocation/deallocation/initialization to 0 of 10 dynamically sized 1 dimensional(10) integer arrays declared in a block statement.

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AF03643,S	C/E/S/T	allocation/deallocation/initialization to non-zero constants of 10 dynamically sized 1 dimensional(10) integer arrays declared in a block statement.
AF03644,S	C/E/S/T	allocation/deallocation of 10 dynamically sized 2 dimensional(3,3) integer arrays declared in a block statement.
AF03645,S	C/E/S/T	allocation/deallocation/initialization to 0 of 10 dynamically sized 2 dimensional(3,3) integer arrays
AF03646,S	C/E/S/T	declared in a block statement. allocation/deallocation/initialization to non-zero constants of 10 dynamically sized 2 dimensional(3,3)
AF03647,S	C/E/S/T	integer arrays declared in a block statement. allocation/deallocation of 10 dynamically sized 3 dimensional(3,3,3) integer arrays declared in a block
AF03648,S	C/E/S/T	statement. allocation/deallocation/initialization to 0 of 10 dynamically sized 3 dimensional(3,3,3) integer arrays
AF03649,S	C/E/S/T	<pre>declared in a block statement. allocation/deallocation/initialization to non-zero constants of 10 dynamically sized 3 dimensional(3,3,3)</pre>
4547744	0.45.40.45.4	integer arrays declared in a block statement.
AF03700 AF03701.S	C/E/S/T/J C/E/S/T/J	test loop overhead for tests: af03701,AF03702,AF03703. allocation/deallocation of 10 1 dimensional(10) arrays
AFU3/01,3	C 23/1/3	with discriminated record components(type VARIANT_RECORDS) declared in a procedure. A variable is used as the record discriminant.
AF03702,S	C/E/S/T/J	allocation/deallocation of 10 1 dimensional(10) arrays with discriminated record components(type VARIANT_RECORDS) declared in a procedure. A constant is
AF03703,S	C/E/S/T/J	used as the record discriminant. allocation/deallocation/intialization to a record aggregate of 10 1 dimensional(10) arrays with discriminated record components(type VARIANT_RECORDS) declared in a procedure. A constant is used as the
		record discriminant.
AF03800	C/E/S/T/J	test loop overhead for tests: AF03801,AF03802,AF03803, AF03804.
AF03801,S	C/E/S/T/J	allocation/deallocation of 10 1 dimensional(10) arrays with record access components declared in a procedure. The access type(RECORD_POINTER) is globally defined in package ourspc.
AF03802,S	C/E/S/T/J	allocation/deallocation/initialization to a record aggregate of 10 1 dimensional(10) arrays with record access components declared in a procedure. The access type(RECORD_POINTER) is globally defined in package
AF03803,S	C/E/S/T/J	allocation/deallocation of 10 1 dimensional(10) arrays with record access components declared in a procedure. The access type used is declared within the procedure and the test includes the time to create/remove the collection of access objects associated with the access
AF03804,S	C/E/S/T/J	type. allocation/deallocation/initialization to a record aggregate of 10 1 dimensional(10) arrays with record access components declared in a procedure. The access type used is declared within the procedure and the test includes the time to create/remove the collection of
AF04120	C/E/S/T/J/F	access objects associated with the access type. 3 assignment statements using integer array slices with constant slice ranges.
AF04121	C/E/S/T/J/F	3 assignment statements using integer array slices with scalar variable slice ranges. Compare to AF04120.
AF04122	C/E/S/T/J/F	3 assignment statements using character string slices with constant slice ranges.
AF04123	C/E/S/T/J/F	

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AF04124	C/E/S/T/J/F	with scalar variable slice ranges. Compare to AF04122. 3 assignment statements of constant aggregates to
AF04125	C/E/S/T/J/F	integer array slices with constant slice ranges. 3 assignment statements of constant aggregates to integer array slices with variable slice ranges.
AF04126	C/E/S/T/J/F	Compare to AF04124. 3 assignment statements of constant aggregates to slices
AF04127	C/E/S/T/J/F	of string variables with constant slice indices. 3 assignment statements of constant aggregates to slices of string variables using variable slice and aggregate
AFD4128	C/E/S/T/J	named association ranges. Compare to AF04126. 3 assignment statements of constant aggregates to slices of packed string variables using non-constant slice and
AF04129	C/E/S/T/J/F	aggregate named association ranges. Compare to AF04127. 3 assignment statements using boolean array slices with
AFD412A	C/E/S/T/J	constant slice ranges. 3 assignment statements using slices of packed boolean
AF0412B	C/E/S/T/J	arrays with constant slice ranges. Compare to AF04129. 3 assignment statements using record array slices with constant slice ranges.
AFD412C	C/E/S/T/J	3 assignment statements using packed record(type PACKED_RECORDS) array slices with constant slice ranges. Compare to AF0412B.
AFD412D	C/E/S/T/J	3 assignment statements using packed record(type REP_RECORDS) array slices with constant slice ranges.
AF04130	C/E/S/T/J	Compare to AF0412B, AFD412C. references to integer components of records (type RECORDS) in 10 statements of the form: TMPRCi.COMP_I1
AF04131	C/E/S/T/J	<pre>:= TMPRCj.COMP_I1;. references to integer components of records (type RECORDS) in 10 statements of the form: TMPRCi.COMP_I2</pre>
AF04132	C/E/S/T/J	<pre>i= TMPRCj.COMP_12;. references to boolean components of records (type RECORDS) in 10 statements of the form: TMPRCi.COMP_B1</pre>
AF04133	C/E/S/T/J	<pre># TMPRCj.COMP_B1;. references to enumeration components of records (type RECORDS) in 10 statements of the form: TMPRCi.COMP_E :=</pre>
AFD4135	C/E/S/T/J	TMPRCj.COMP_E;. references to integer components of packed records (type PACKED_RECORDS) in 10 statements of the form:
AFD4136	C/E/S/T/J	TMPRPi.COMP_Il := TMPRPj.COMP_Il;. Compare to AF04130. references to integer components of packed records (type PACKED_RECORDS) in 10 statements of the form:
AFD4137	C/E/S/T/J	TMPRPi.COMP_I2 := TMPRPj.COMP_I2;. Compare to AF04131. references to boolean components of packed records (type PACKED_RECORDS) in 10 statements of the form:
AFD4138	C/E/S/T/J	TMPRPi.COMP_Bl := TMPRPj.COMP_Bl;. Compare to AF04132. references to enumeration components of packed records(type PACKED_RECORDS) in 10 statements of the form:
AFD4139	C/E/S/T/J	TMPRPi.COMP_E := TMPRPj.COMP_E;. Compare to AF04133. references to integer components of records packed by rep.specs. (type REP_RECORDS,bits 04) in 10
AFD413A	C/E/S/T/J	statements of the form: TMPRRi.COMP_Il := TMPRRj.COMP_Il;. Compare to AFD4135. references to integer components of records packed by rep.specs. (type REP_RECORDS,bits 59) in 10 statements of the form: TMPRRi.COMP_I2 :=
AFD413B	C/E/S/T/J	TMPRRj.COMP_I2;. Compare to AFD4136. references to boolean components of records packed by rep.specs. (type REP_RECORDS,bit 10) in 10 statements of the form: TMPRRi.COMP_B1 := TMPRRj.COMP_B1;. Compare
AFD413C	C/E/S/T/J	to AFD4137. references to enumeration components of records packed by rep.specs. (type REP_RECORDS,bits 1215) in 10 statements of the form: TMPRRi.COMP_E :=

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AF0413D	C/E/S/T/J	TMPRRj.COMP_E;. Compare to AFD4138. references to integer components of unconstrained record variants (type VARIANT_RECORDS) in 10 statements of the
AFD413E	C/E/S/T/J	form: TMPVSi.COMP_II := TMPVSj.COMP_II;. references to integer components of packed unconstrained record variants (type PACKED_VARIANT) in 10 statements of the form: TMPVPi.COMP_II := TMPVPj.COMP_II;. Compare
AFD413G	C/E/S/T/J	to AF0413D. references to packed string components of records (type RECORD_TYPE) in 10 statements of the form:
AF0413H	C/E/S/T/J	TMPPRi.String_Comp := TMPPRj.String_Comp;. references to access type components of record access objects (type RECORD_POINTER) in 10 statements of the
AF04131	C/E/S/T/J	<pre>form: TMPPPi.Pointer_Comp := TMPPPj.Pointer_Comp;. references to integer components of records (type RECORD_TYPE) in 10 statements of the form: TMPPRi.Int_Comp := TMPPRj.Int_Comp;.</pre>
AF0413J	C/E/S/T/J	references to integer components of record access objects (type RECORD_POINTER) in 10 statements of the form: TMPPPi.Int_Comp := TMPPPj.Int_Comp;. Compare to
AF0413K	C/E/S/T/J	AF0413I. references to integer components of record access objects (type RECORD_POINTER) in 10 statements of the form: TMPPPi.Pointer_Comp.Int_Comp := TMPPPj.Pointer_Comp.Int_Comp;. Compare to AF0413J,
4504510	0.45.45.45.4	AF04131.
AF04310	C/E/S/T/J	10 statements assigning a record aggregate to a record variable (type RECORDS).
AF04311	C/E/S/T/J	10 statements assigning a record aggregate to an unconstrained variant record variable(type VARIANT_RECORDS).
AF04312	C/E/S/T/J	10 statements assigning a record aggregate to a record access variable using the qualifier .all(type RECORD_POINTER).
AF04510	C/E/S/T/J/F	9 logical ANDs all true in one IF statement.
AF04511	C/E/S/T/J/F	9 logical ANDs all false in one IF statement. It is permissable if an elapsed time too short error message is generated for this test.
AF04512	C/E/S/T/J/F	9 logical ORs all true in one IF statement. It is permissable if an elapsed time too short error message is generated for this test.
AF04513	C/E/S/T/J/F	
AF04514	C/E/S/T/J/F	9 logical XORs all false in one IF, statement.
AF04515 AF04516	C/E/S/T/J/F C/E/S/T/J/F	1 10 element boolean array AND assignment. 1 10 element boolean array relational (equality)
AF04517	C/E/S/T/J/F	assignment. 1 10 element boolean array relational (>=) assignment.
AF04518	C/E/S/T/J/F	test loop overhead for tests: AF04519 AF0451a AF0451b AF0451c AF0451d AF0451e AF0451f AF0451g AF0451h AF0451i. The overhead includes all logical operations
		and statements that are not part of the test but only
AF04519,S	C/E/S/T/J/F	used to construct it. 10 relational = in one IF statement (all true) with
AF0451A,S	C/E/S/T/J/F	integer eperands. 10 relational = in one IF statement (all true) with
AF0451B,S	C/E/S/T/J/F	float operands. 10 relational /= in one IF statement (all true) with
AF0451C,S	C/E/S/T/J/F	integer operands. 10 relational < in one IF statement (all true) with
AF0451D.S	C/E/S/T/J/F	<pre>integer operands. 10 relational <= in one IF statement (all true) with</pre>
AF0451E,S	C/E/S/T/J/F	integer operands. 10 relational > in one IF statement (all true) with
AF0451F,S	C/E/S/T/J/F	integer operands. 10 relational >= in one IF statement (all true) with

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AF0451G,S	C/E/S/T/J/F	integer operands. 10 logical negations in one IF statement (all true) with
AF0451H,S	C/E/S/T/F	boolean operands. 10 membership in tests in one IF statement (all true)
AF04511,S	C/E/S/T/F	with integer operands. 10 membership not in tests in one IF statement (all true) with integer operands.
AFD451K	C/E/S/T/J/F	test loop overhead for tests: AFD4511 AFD451M AFD451N AFD4510 AFD451P AFD451Q AFD451R AFD451S AFD451T. The overhead includes all logical operations and statements that are not part of the test but only used to
AFD451L,S	C/E/S/T/J/F	<pre>construct it. 10 relational = in one IF statement (all true) with short_short_integer operands.</pre>
AFD451M,S	C/E/S/T/J/F	10 relational = in one IF statement (all true) with
AFD451N,S	C/E/S/T/F	<pre>short_integer operands. 10 relational = in one IF statement (all true) with</pre>
AFD4510,S	C/E/S/T/F	long_float operands. 10 relational = in one IF statement (all true) with
AFD451P,S	C/E/S/T/J/F	<pre>long_long_float eperands. 10 relational < in one IF statement (all true) with</pre>
AFD451Q,S	C/E/S/T/J/F	short_short_integer operands. 10 relational < in one IF statement (all true) with
AFD451R,S	C/E/S/T/F	<pre>short_integer operands. 10 relational < in one IF statement (all true) with</pre>
AFD451S,S	C/E/S/T/F	long_float operands. 10 relational < in one IF statement (all true) with
AFD451T,SX	C/E/S/T/J/F	long_long_float operands. 10 relational = in one IF statement (all true) with
AF0451V	C/E/S/T/J/F	<pre>d_float operands. test loop overhead for tests: AF0451H AF0451X AF0451Y. The overhead includes all logical operations and statements that are not part of the test but only used</pre>
AF0451H.S	C/E/S/T/J/F	to construct it. 10 relational /= in one IF statement (all false) with
		integer operands.
AF0451X,S	C/E/S/T/J/F	10 relational /= in one IF statement (all false) with float operands.
AF0451Y,S	C/E/S/T/J/F	<pre>10 relational < in one IF statement (all false) with integer operands.</pre>
AF04520	C/E/S/T/J/F	10 element integer array = test in one IF statement(True). Includes execution of the if + the then part(
AF04521	C/E/S/T/J/F	<pre>tmpisI := 100). 10 element integer array >= test in one IF statement(True). Includes execution of the if + the then part(</pre>
AF04522	C/E/S/T/J/F	<pre>tmpisl := 100). 10 element integer array = test in one IF statement(False). Includes execution of the if + the else part(</pre>
AFD4523	C/E/S/T/J/F	<pre>tmpis2 := 100). 10 element - short_short_integer array = test in one IF statement (true). Includes execution of the if + the</pre>
AFD4524	C/E/S/T/J/F	then part(tmpisl := 100). Compare to AFD451L. 10 element short_integer array = test in one IF statement (true). Includes execution of the if + the
AFD4525	C/E/S/T/F	then part(tmpisl := 180). Compare to AFD451M. 10 element long_float array = test in one IF statement(true). Includes_execution_of_the_if + the then part(
AFD4526	C/E/S/T/F	<pre>tmpisl := 100). Compare to AFD451N. 10 element long_long_float array = test in one IF statement (true). Includes execution of the if + the</pre>
AF04527	C/E/S/T/J	then part(tmpis) := 100). Compare to AFD4510. 10 element boolean array = test in one IF statement(true). Includes execution of the if + the then part(
AFD4528	C/E/S/T	tmpisl = 100). 10 element packed boolean array = test in one IF

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AF04529	C/E/S/T/J/F	statement (true). Includes execution of the if + the then part(tmpisl := 100). Compare to AF04527. 10 character string = test in one IF statement (true). Includes execution of the if + the then part(tmpisl := 100).
AFD452A	C/E/S/T/J	<pre>10 character packed string = test in one IF statement(true). Includes execution of the if + the then part(</pre>
AF04530	C/E/S/T/J/F	tmpisl := 100). Compare to AFD4529. 1 assignment statement assigning an expression with 9 integer additions of scalar variables to a scalar
AF04531	C/E/S/T/J/F	variable. l assignment statement assigning an expression with 9 integer subtractions of scalar variables from a scalar
AF04532	C/E/S/T/J/F	variable. 1 assignment statement assigning an expression with 9 float additions of scalar variables to a scalar
AF04533	C/E/S/T/J/F	variable. l assignment statement assigning an expression with 9 float subtractions of scalar variables from a scalar variable.
AF04534	C/E/S/T/J/F	1 assignment statement assigning an expression with 9
AF04535	C/E/S/T/J/F	constant character catenations to a string variable. 1 assignment statement assigning an expression with 9 constant catenations of strings of length 3 to a string variable.
AF04536	C/E/S/T/J/F	1 assignment statement assigning an expression with 9
AF04537	C/E/S/T/J/F	integer array element catenations to an array slice. 10 integer increments by 1. Ten assignment statements using scalar variable operands were used to construct
AF04538	·C/E/S/T/J/F	the test. 10 integer increments by 10. Ten assignment statements using scalar variable operands were used to construct
AF04539	C/E/S/T/J/F	the test. 10 integer decrements by 1. Ten assignment statements using scalar variable operands were used to construct
AFD453A	C/E/S/T/J/F	the test. 10 integer decrements by 10. Ten assignment statements using scalar variable operands were used to construct the test.
AF0453B	C/E/S/T/J	l assignment statement assigning an expression with 9 fixed point additions of scalar variables to a scalar variable.
AF0453C	C/E/S/T/J	l assignment statement assigning an expression with 9 fixed point subtractions of scalar variables from a scalar variable.
AF04540	C/E/S/T/J/F	10 assignment statements assigning a negated integer scalar variable to a scalar variable.
AF04541	C/E/S/T/J/F	10 assignment statements assigning a negated float scalar variable to a scalar variable.
AF04550	C/E/S/T/J/F	
AF04551	C/E/S/T/J/F	3 assignment statements of the form x := y mod z where x, y and z are positive scalar variables.
AF04552	C/E/S/T/J/F	3 assignment statements of the form x: y mod z where x,
AF04553	C/E/S/T/J/F	y and z are scalar variables and only z is negative. 3 assignment statements of the form x: y rem z where x,
AF04554	C/E/S/T/J/F	y and z are scalar variables and y is zero. 3 assignment statements of the form x : y rem z where x,
AF04555	C/E/S/T/J/F	y and z are scalar variables and are >0. 3 assignment statements of the form x := y rem z where x,
AF04556	C/E/S/T/J/F	y and z are scalar variables and only z is negative. I assignment statement assigning an expression with 7 integer multiplies of scalar variables to a scalar
AF04557	C/E/S/T/J/F	variable. 1 assignment statement assigning an expression with 7

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	YERSIONS	DESCRIPTION
		integer divides of scalar variables to a scalar variable.
AF04558	C/E/S/T/J/F	l assignment statement assigning an expression with 7 float multiplies of scalar variables to a scalar
AF04559	C/E/S/T/J/F	variable. 1 assignment statement assigning an expression with 7
AFD455D	C/E/S/T/J/F	float divides of scalar variables to a scalar variable. 3 short short integer multiplies in 1 assignment
AFD455E	C/E/S/T/J/F	statement using scalar variable operands. 7 short_integer multiplies in l assignment statement using scalar variable operands.
AFD455F	C/E/S/T/F	7 long_float multiplies in 1 assignment statement using
AFD455G	C/E/S/T/F	scalar variable operands. 7 long_long_float multiplies in 1 assignment statement
AFD455H×	C/E/S/T/J/F	using scalar variable operands. 7 d_float multiplies in 1 assignment statement using
AFD455I	C/E/S/T/J/F	
AFD455J	C/E/S/T/J/F	using scalar variable operands. 7 short_integer divides in 1 assignment statement using
AFD455K	C/E/S/T/F	scalar variable operands. 7 long_float multiplies in 1 assignment statement using
AFD455L	C/E/S/T/F	scalar variable operands. 7 long_long_float divides in l assignment statement
AFD455M×	C/E/S/T/J/F	using scalar variable operands. 7 d_float divides in 1 assignment statement using scalar
AF0455N	C/E/S/T/J	variable operands. 1 assignment statement assigning an expression with 7
		fixed point multiplies of scalar variables to a scalar variable.
AF04550	C/E/S/T/J	l assignment statement assigning an expression with 7 fixed point divides of scalar variables to a scalar
AF04560	C/E/S/T/J/F	variable. 6 assignment statements of the form x == abs(y) where x
AF04562	C/E/S/T/J/F	and y are scalar variables. 1 assignment statement assigning an expression with 2
4804843		integer exponentiations of scalar variables to a scalar variable.
AF04563	C/E/S/T/J/F	l assignment statement assigning an expression with 2 float exponentiations of scalar variables to a scalar
AFD4566	C/E/S/T/J	variable. 3 short_short_integer exponentiations. Three assignment
4004040		statements with scalar operands were used to construct the test.
AFD4567	C/E/S/T/J/F	S short integer exponentiations. Three assignment statements with scalar operands were used to construct
AFD4568	C/E/S/T/F	the test. 3 long_float exponentiations. Three assignment
		statements with scalar operands were used to construct the test.
AFD4569	C/E/S/T/F -	3 long_long_float exponentiations. Three assignment statements with scalar operands were used to construct
AFD456A×	C/E/S/T/J/F	the test. 3 d_float exponentiations. Three assignment statements
AF04600	C/E/S/T/J/F	with scalar operands were used to construct the test. 10 type conversions (integer to float).
AF04601	C/E/S/T/J/F	10 type conversions (float to integer).
AF04602	C/E/S/T/J/F	10 type conversions of an integer quantity to one with a
AFD4603	C/E/S/T/J/F	<pre>smaller range(integer to one_to_3). 10 type conversions (short_short_integer to</pre>
	<i></i>	short_integer).
AFD4604	C/E/S/T/J/F	10 type conversions (short_short_integer to integer).
AFD4605	C/E/S/T/J/F	10 type conversions (short_integer to integer).
AFD4606	C/E/S/T/J/F	10 type conversions (integer to short_integer).
AFD4607	C/E/S/T/J/F	10 type conversions (integer to short_short_integer).

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AFD4608	C/E/S/T/F	10 type conversions (float to long_float).
AFD4609	C/E/S/T/F	10 type conversions (float to long_long_float).
AFD460A	CZEZSZTZF	10 type conversions (long_long_float to long_float).
AFD460B	C/E/S/T/F	10 type conversions (long_long_float to float).
AFD460CX	C/E/S/T	10 type conversions (long_float to d_float).
AFD460D× AFD460E	C/E/S/T C/E/S/T/J	10 type conversions (d_float to long_float). 10 type conversions (fixed point to float).
AF0460F	C/E/S/T/J	10 type conversions (float to fixed point).
AF0460G	C/E/S/T/J	10 type conversions (integer to fixed point).
AF0460H	C/E/S/T/J	10 type conversions (fixed point to integer).
AF0460I	C/E/S/T/J/F	10 type conversions (integer to positive).
AF046DJ	C/E/S/T/J	10 type conversions (five_bit_integer to integer). The
		five_bit_integer is contained in a component(comp_il) of a record(type RECORDS).
AFD460K	C/E/S/T/J	10 type conversions (five_bit_integer to integer). The
		five_bit_integer is contained in a component(comp_il)
		of a packed record(type PACKED_RECORDS). Compare to
A = D < (A)	0.45.46.45.4	AFO460J.
AFD460L	C/E/S/T/J	10 type conversions (five_bit_integer to integer). The
		five_bit_integer is contained in a component(comp_il) of a packed record(type REP_RECORDS). Compare to
		AF0460J.
AF0460M	C/E/S/T/J	10 type conversions (integer to five_bit_integer). The
		five_bit_integer object is contained in a component(
		comp_il) of a record(type RECORDS).
AFD460N	C/E/S/T/J	10 type conversions (integer to five_bit_integer). The
		five_bit_integer object is contained in a component(
		comp_il) of a packed record(type PACKED_RECORDS).
AFD4600	C/E/S/T/J	Compare to AF0460M. 10 type conversions (integer to five_bit_integer). The
AFDAGGG	C/ E/ 3/ 1/ 3	five_bit_integer object is contained in a component(
		comp il) of a macked record(type REP RECORDS). Compare
		to AF0460M.
AFD4800	C/S/T	test loop overhead for tests: AFD4801,AFD4802,AFD4803.
		The overhead includes all statements that are not part
AFRAGAL C	C / C / T	of the test but only used to construct it.
AFD4801,S	C/S/T	100 statements dynamically allocating/initializing a record object(type RECORDS) and assigning the access
		value for it to an access variable whose type is
		locally defined . The storage_size attribute for the
		access type is determined by the compiler and placed in
	_	run statistic 82.
AFD4802,S	C/S/T	test AFD4801 plus 100 statements to use unchecked
		storage deallocation to reclaim previously allocated
AFD4803.S	C/S/T	storage. Compare to AFD4801. same test as AFD4802 except the storage_size attribute
AF 54603,3	C/ 3/ 1	of the access type used is set by the test program to
		an implementation dependent value.
AF05200	C/E/S/T/J/F	10 integer assignments. The test assigns a scalar
		variable to a scalar variable.
AF05201	C/E/S/T/J/F	10 integer assignments. A scalar constant is assigned
AF05202	C/E/S/T/J/F	to a scalar variable. 10 float assignments. The test assigns a scalar
MF U J Z U Z	C/ E/ 3/ 1/ 3/ F	variable to a scalar variable.
AF05203	C/E/S/T/J/F	10 float assignments. A scalar constant is assigned to
		a scalar variable.
AF05204	C/E/S/T/J/F	10 boolean assignments. The test assigns a scalar
	0.45.40.45.4.45	variable to a scalar variable.
AF05205	C/E/S/T/J/F	10 boolean assignments. A scalar constant is assigned to a scalar variable.
AF05206	C/E/S/T/J/F	to a scalar variable. 10 relational * assignments using scalar integer
		operands with the result being true.
AF05207	C/E/S/T/J/F	10 relational = assignments using scalar integer
		operands with the result being false.
AF05208	C/E/S/T/J/F	10 assignments statements of the form x := not y where x,

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AF05209	C/E/S/T/J/F	The first the first terms of the
AF0520A	C/E/S/T/J/F	boolean operands. 10 logical DR assignment statements using scalar boolean
AF0520B	C/E/S/T/J	operands. 10 fixed point assignments. The test assigns a scalar
AFD520C	C/E/S/T/J/F	variable to a scalar variable. 10 short_short_integer assignments. The test assigns a
AFD520D	C/E/S/T/J/F	scalar variable to a scalar variable. 10 short_short_integer assignments. The test assigns a
AFD520E	C/E/S/T/J/F	scalar constant to a scalar variable. 10 short_integer assignments. The test assigns a scalar
AFD520F	C/E/S/T/J/F	variable to another scalar variable. 10 short_integer assignments. The test assigns a scalar
AFD520G	C/E/S/T/F	constant to a scalar variable. 10 long_float assignments. The test assigns a scalar
AFD520H	C/E/S/T/F	variable to a scalar variable. 10 long_float assignments. The test assigns a scalar
AFD5201	C/E/S/T/F	constant to a scalar variable. 10 long_long_float assignments. The test assigns a
AFD520J	C/E/S/T/F	scalar variable to a scalar variable. long_long_float_assignments. The test assigns a scalar
AFD520K×	C/E/S/T/J/F	constant to a scalar variable. 10 d float assignments. The test assigns a scalar
AFD520L×	C/E/S/T/J/F	variable to a scalar variable. 10 d_float assignments. The test assigns a scalar
AF0520M	C/E/S/T/J	constant to a scalar variable. 10 enumeration assignments. The test assigns a scalar
AFD520N	C/E/S/T/J	variable to a scalar variable. 10 enumeration assignments. The test assigns a scalar
		variable to a scalar variable. The variables are of type REP_MONTHS. Compare to AF0520M.
AF05200	C/E/S/T/J	10 record assignments. The test assigns a record object to a record object.
AFD520P	C/E/S/T/J	10 record assignments. The test assigns a packed record object to a packed record object. The record objects
AFD520Q	C/E/S/T/J	are of type PACKED_RECORDS. Compare to AF05200. 10 record assignments. The test assigns a packed record
H. 23204	C L 3. (1 0	object to a packed record object. The record objects are of type REP_RECORDS. Compare to AF05200, AFD520P.
AF0520R	C/E/S/T/J	10 record access variable assignments of the form: TMPPPi := TMPPPj;.
AF0520S	C/E/S/T/J	10 record access variable assignments of the form: TMPPPi.ALL : TMPPPj.ALL;
AF05210	C/E/S/T/J/F	10 integer array assignments with the subscript a variable. A constant is assigned to an array element.
AF05211	C/E/S/T/J/F	10 integer array assignments with the subscript a
AF05212	C/E/S/T/J/F	constant. A constant is assigned to an array element. 10 float array assignments with the subscript a
AF05317	C/E/S/T/J/F	variable. A scalar variable is assigned to an array element.
AF05213	Crerarinare	constant. A scalar variable is assigned to an array
AF05214	C/E/S/T/J/F	element. 10 boolean array assignments with the subscript a
4505015	0.5.0.5.1.5	variable. A scalar variable is assigned to an array element.
AF05215	C/E/S/T/J/F	10 boolean array assignments with the subscript a constant. A scalar variable is assigned to an array
AFD5218	C/E/S/T/J/F	
		subscript a scalar variable. A scalar variable is assigned to an array element.
AFD5219	C/E/S/T/J/F	10 short_short_integer array assignments with the subscript a scalar constant. A scalar variable is

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AFD521A	C/E/S/T/J/F	assigned to an array element. 10 short_integer array assignments with the subscript a scalar variable is assigned to an
AFD521B	C/E/S/T/J/F	array element. 10 short_integer array assignments with the subscript a scalar constant. A scalar variable is assigned to an
AFD521C	C/E/S/T/F	array element. 10 long_float array assignments with the subscript a scalar variable. A scalar variable is assigned to an
AFD521D	C/E/S/T/F	array element. 10 long_float array assignments with the subscript a scalar constant. A scalar variable is assigned to an
AFD521E	C/E/S/T/F	array element. 10 long_long_float array assignments with the subscript a scalar variable. A scalar variable is assigned to an
AFD521F	C/E/S/T/F	array element. 10 long_long_float array assignments with the subscript a scalar constant. A scalar variable is assigned to an
AF0521H	C/E/S/T/J/F	array element. 5 2-dimensional integer array assignments with the subscript a variable. A scalar variable is assigned to
AF0521I	C/E/S/T/J/F	an array element. 5 3-dimensional integer array assignments with the subscript a variable. A scalar variable is assigned to
AF0521J	C/E/S/T/J/F	an array element. 10 integer array assignments with the subscript a variable typed with the range the same as the
AF0521K	C/E/S/T/J/F	dimensions (compare to AF05210). A constant is assigned to an array element. 5 2-dimensional integer array assignments with the subscript variables typed with ranges the same as the dimension (compare to AF0521H). A constant is assigned
AFD521K	C/E/S/T/J	to an array element. 10 packed boolean array assignments with the subscript a
AF0521L	C/E/S/T/J	variable. Compare to AF05214. 10 character array assignments with the subscript a variable(TMPCS1(TMPISi) := TMPCS4(j);).
AFD521M	C/E/S/T/J	10 packed character array assignments with the subscript a variable(TMPCP1(TMPISi) := TMPCP4(j);). Compare to AF0521L.
AF0521N	C/E/S/T/J	10 record array assignments with the subscript a variable(TMPRAS(TMPISi) := TMPRC;;).
AFD5210	C/E/S/T/J	10 packed record(type PACKED_RECORDS) array assignments with the subscript a variable(TMPRAP(TMPISi) := TMPRPj;). Compare to AF0521N.
AFD521P	C/E/S/T/J	ID packed record(type REP_RECORDS) erray assignments with the subscript a variable(TMPRAR(TMPISi) := TMPRR);) . Compare to AFD5210.
AF05300	C/E/S/T/J/F	test loop overhead for tests: AF05301 AF05302 AF05303. The overhead includes all statements that are not part
AF05301,S	C/E/S/T/J/F	of the test but only used to construct it. 10 IF statements with no else part. The if condition fails.
AF05302,S	C/E/S/T/J/F	10 nested IF statements. The if condition fails.
AF05303.S	C/E/%/1/J/F	1 IF and 9 ELSIF statements. The if condition fails.
AF05305	C/E/S/T/J/F	everhead includes all statements that are not part of the test but only used to construct it.
AF05306,S	C/E/S/T/J/F	10 IF statements with the then part executed.
AF05307.S	C/E/S/T/J/F	10 IF statements with the else part executed.
AF05400	C/E/S/T/J/F	test loop overhead for tests: AF05401 AF05402 AF05403 AF05404 AF05405 AF05406 AF05407. The overhead includes statements that are not part of the test but only used
AF05401,S	C/E/S/T/J/F	to construct it.

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
		sequential numerical order. The last alternative is executed.
AF05402,S	C/E/S/T/J/F	
AF05403,S	C/E/S/T/J/F	I case statement with 10 alternatives in increasing sequential numerical order. The (others) alternative
AF05404,S	C/E/S/T/J/F	is executed. 1 case statement with 10 alternatives increasing by 2 The last alternative is executed.
AF05405,S	C/E/S/T/J/F	l case statement with 10 alternatives with large non-contiguous ranges. The last alternative is executed.
AF05406,S	C/E/S/T/J/F	l case statement with 10 alternatives with large non-contiguous ranges. The (others) alternative is executed.
AF05407,S	C/E/S/T/J/F	l case statement with 10 alternatives with large contiguous ranges. The last alternative is executed.
AF05501	C/E/S/T/J/F	test loop overhead for tests: AF05502 AF05503 AF05504 AF05505 AF05506 AF05507 AF05508 AF05509 AF0550a AF0550b. The overhead includes all statements that are not part of the loop control statement.
AF05502,S	C/E/S/T/J/F	10 0-iteration FOR loops(loop control => for i in ltmpis0).
AF05503,S	C/E/S/T/J/F	10 0-iteration FOR loops in reverse order(loop control =>for i in reverse 1tmpis0).
AF05504,S	C/E/S/T/J/F	10 0-iteration while loops(loop control=> while tmpis* <= tmpis0).
AF05506	C/E/S/T/J/F	test loop overhead for tests: AF05507 AF05508 AF05509 AF0550A AF0550B. The overhead includes all statements
AF05507,S	C/E/S/T/J/F	that are not part of the loop control statement. 10 1-iteration FOR loops(loop control => for i in ltmpisl).
AF05508,S	C/E/S/T/J/F	10 1-iteration FOR loops in reverse order(loop control => for i in reverse 1tmpisl).
AF05509,S	C/E/S/T/J/F	5 2-level 1-iteration nested FOR loops(loop control => for i in 1tmpisl).
AF0550A,S	C/E/S/T/J/F	5 2-level 1-iteration nested FOR loops with loop control variable referenced but not used(loop control => for i in 1tmpisl).
AF0550B,S	C/E/S/T/J/F	1 10 level nested loop with 1 iteration per loop.
AF0550D	C/E/S/T/J/F	references to a 1-dimensional array within a FOR loop using the loop iterative as array index(tmpial(i) = tmpial(i+1)).
AF0550E	C/E/S/T/J/F	references to a 2-dimensional (3,3) array within a 2-level nested FOR loop using the loop iteratives as
AF0350F	C/E/S/T/J/F	array indices (tmpia2(i,j):=tmpia2(j,i)). references to a 3-dimensional (3,3,3) array within a 3-level nested FOR loop using the loop iteratives as
AF06001	C/E/S/T/J/F	array indices (tmpia3(i,j,k):=tmpia3(k,i,j)). invocation of a local procedure with no arguments.
AF06009	C/E/S/T/J/F	invocation of a local procedure with 1 scalar integer input argument.
AF06010	C/E/S/T/J/F	invocation of a local procedure with 1 scalar integer output argument.
AF06011	C/E/S/T/J/F	invocation of a local procedure with 1 scalar integer input/output argument.
AF06013	C/E/S/T/J/F	loop everhead for subsequent tests for local procedure calls with 10 scalar integer arguments, which are tests
ABA454 5		AF06014 AF06015 AF06016.
AF06014,S	C/E/S/T/J/F	invocation of a local procedure with 10 scalar integer input arguments.
AF06015,S	C/E/S/T/J/F	invocation of a local procedure with 10 scalar integer output arguments.
AF06016,5	C/E/S/T/J/F	invocation of a local procedure with 10 scalar integer

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>YERSIONS</u>	DESCRIPTION
AF06017	C/E/S/T/J/F	<pre>input/output arguments. \$reference in a local procedure to 10 scalar integer input arguments with references to the arguments in 10 statements of the form TMPISi := ARGi.</pre>
AF06018	C/E/S/T/J/F	<pre>\$reference in a local procedure to 10 scalar integer output arguments with references to the arguments in 10 statements of the form ARGi := TMPISi.</pre>
AF06019	C/E/S/T/J/F	<pre>freference in a local procedure to 10 scalar integer input/output arguments with references to the arguments</pre>
AF06023	C/E/S/T/J/F	in 10 statements of the form ARGi := ARGj. loop overhead for subsequent tests for local procedure calls to procedures declared with 10 constrained 1-dimensional integer array arguments, which are tests AF06024 AF06025 AF06026 AF06027 AF06028 AF06029 AF06030 AF06031 AF06032 . The overhead includes all statements(including the invocation of a 0 argument local procedure) that are not part of the test but only used to construct it.
AF06024,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained l-dimensional integer array input arguments.
AF06025,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 1-dimensional integer array output arguments.
AF06026,5	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 1-dimensional integer array input/output arguments.
AF06027,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 2-dimensional integer array input arguments.
AF06028,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 2-dimensional integer array output arguments.
AF06029,5	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 2-dimensional integer array input/output arguments.
AF06030,5	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 3-dimensional integer array input arguments.
AF06031,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 3-dimensional integer array output arguments.
AF06032,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 3-dimensional integer array input/output arguments.
AF06043	C/E/S/T/J/F	loop overhead for subsequent tests for local procedure calls declared with 10 unconstrained integer array arguments, which are tests AF06044 AF06045 AF06046 AF06047 AF06048 AF06049 AF06050 AF06051 AF06052. The overhead includes all statements (including the invocation of a 0 argument local procedure) that are
AF06044,S	C/E/S/T/J/F	not part of the test but only used to construct it. invocation of a local procedure with 10 constrained l-dimensional integer array input arguments.
AF06045.S	C/E/S/T/J/F	
AF06046.5	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 1-dimensional integer array input/output arguments.
AF06047.5	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 2-dimensional integer array input arguments.
AF06048,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 2-dimensional integer array output arguments.
AF06049,S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 2-dimensional integer array input/output arguments.
AF06050.S	C/E/S/T/J/F	invocation of a local procedure with 10 constrained 3-dimensional integer array input arguments.
AF06051.S	C/E/S/T/J.'F	invocation of a local procedure with 10 constrained
AF06052.S	C/E/S/T/J/F	
AF06060	C/E/S/T/J/F	5-dimensional integer array input/output arguments. freference in a local procedure declared with 10 constrained 1-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi :=

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Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AF06061	C/E/S/T/J/F	ARG(TMPISj). Freference in a local procedure declared with 10 constrained 1-dimensional integer array output arguments to an argument in 10 statements of the form
AF06062	C/E/S/T/J/F	ARG(TMPISi) := constant (compare to AF05210). Preference in a local procedure declared with 10 constrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi) := ARG(TMPISj).
AF06063	C/E/S/T/J/F	reference in a local procedure declared with 10 constrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj).
AF06064	C/E/S/T/J/F	freference in a local procedure declared with 10 constrained 2-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) := constant (compare to AF0521H).
AF06065	C/E/S/T/J/F	*reference in a local procedure declared with 10 constrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) == ARG(TMPISj,TMPISj).
AF06066	C/E/S/T/J/F	<pre>#reference in a local procedure declared with 10 constrained 3-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj,TMPISj).</pre>
AF06067	C/E/S/T/J/F	#reference in a local procedure declared with 10 constrained 3-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi,TMPISi) = constant (compare to AF0521I).
AF06068	C/E/S/T/J/F	reference in a local procedure declared with 10 constrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi,TMPISi) := ARG(TMPISj,TMPISj,TMPISj).
AF06070	C/E/S/T/J/F	<pre>\$reference in a local procedure declared with 10 unconstrained 1-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj).</pre>
AF06071	C/E/S/T/J/F	Freference in a local procedure declared with 10 unconstrained 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) := constant (compare to AF05210).
AF06072	C/E/S/T/J/F	<pre>freference in a local procedure declared with 10 unconstrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi) := ARG(TMPISj).</pre>
AF06073	C/E/S/T/J/F	freference in a local procedure declared with 10 unconstrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi = ARG(TMPISj,TMPISj).
AF06074	C/E/S/T/J/F	<pre>freference in a local procedure declared with 10 unconstrained 2-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) = constant (compare to AF0521H).</pre>
AF06075	C/E/S/T/J/F	<pre>freference in a local procedure declared with 10 unconstrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) += ARG(TMPISj,TMPISj).</pre>
AF06076	C/E/S/T/J/F	Preference in a local procedure declared with 10 unconstrained 3-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj,TMPISj).
AF06077	C/E/S/T/J/F	Preference in a local procedure declared with 10 unconstrained 3-dimensional integer array output

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
		arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi,TMPISi) := constant (compare to AF05211).
AF06078	C/E/S/T/J/F	treference in a local procedure declared with 10 unconstrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form
AF06101	C/E/S/T/J/F	ARG(TMPISi,TMPISi,TMPISi) := ARG(TMPISj,TMPISj,TMPISj).
AF06109	C/E/S/T/J/F	
AF06110	C/E/S/T/J/F	
AF06111	C/E/S/T/J/F	
AF06113	C/E/S/T/J/F	
AF06114,S	C/E/S/T/J/F	
AF06115.S	C/E/S/T/J/F	
AF06116,S	C/E/S/T/J/F	
AF06117	C/E/S/T/J/F	*reference in an external procedure to 10 scalar integer input arguments with references to the arguments in 10 statements of the form TMPISi := ARGi.
AF06118	C/E/S/T/J/F	Preference in an external procedure to 10 scalar integer output arguments with references to the arguments in 10 statements of the form ARGi := TMPISi.
AF06119	C/E/S/T/J/F	<pre>\$reference in an external procedure to 10 scalar integer input/output arguments with references to the arguments</pre>
AF06133	C/E/S/T/J/F	in 10 statements of the form ARGi := ARGj. loop overhead for subsequent tests for external procedure calls of procedures declared with 10 constrained 1-dimensional integer array arguments, which are tests AF06134 AF06135 AF06136. The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the
AF06134,S	C/E/S/T/J/F	test but only used to construct it. call of an external procedure with 10 constrained 1-dimensional integer array input arguments.
AF06135,S	C/E/S/T/J/F	call of an external procedure with 10 constrained
AF06136,S	C/E/S/T/J/F	1-dimensional integer array output arguments. call of an external procedure with 10 constrained
AF06137	C/E/S/T/J/F	1-dimensional integer array input/output arguments. Freference in an external procedure declared with 10 constrained 1-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi :=
AF06138	C/E/S/T/J/F	ARG(TMPISj). \$reference in an external procedure declared with 10 constrained 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) := constant (compare to AF05210).
AF06139	C/E/S/T/J/F	Preference in an external procedure declared with 10 constrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi) := ARG(TMPISj).
AF06143	C/E/S/T/J/F	

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
		tests AF06144 AF06145 AF06146 . The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the test but only used to construct it.
AF06144,S	C/E/S/T/J/F	call of an external procedure with 10 constrained 2-dimensional integer array input arguments.
AF06145,S	C/E/S/T/J/F	call of an external procedure with 10 constrained 2-dimensional integer array output arguments.
AF06146,5	C/E/S/T/J/F	
AF06147	C/E/S/T/J/F	<pre>\$reference in an external procedure declared with 10 constrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj).</pre>
AF06148	C/E/S/T/J/F	<pre>\$reference in an external procedure declared with 10 constrained 2~dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) := constant (compare to AF0521H).</pre>
AF06149	C/E/S/T/J/F	<pre>\$reference in an external procedure declared with 10 constrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) == ARG(TMPISj,TMPISj).</pre>
AF06153	C/E/S/T/J/F	loop overhead for subsequent tests for external procedure calls of procedures declared with 10 constrained 3-dimensional integer array arguments, which are tests AF06154 AF06155 AF06156. The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the
AF06154,S	C/E/S/T/J/F	
AF06155,S	C/E/S/T/J/F	
AF06156,S	C/E/S/T/J/F	
AF06157	C/E/S/T/J/F	3-dimensional integer array input/output arguments. \$reference in an external procedure with 10 constrained 3-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj,TMPISj).
AF06158	C/E/S/T/J/F	<pre>\$reference in an external procedure with 10 constrained 3-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi, TMPISi) := constant (compare to AF0521I).</pre>
AF06159	C/E/S/T/J/F	<pre>#reference in an external procedure with 10 constrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi, TMPISi,TMPISi) := ARG(TMPISj,TMPISj,TMPISj).</pre>
AF06163	C/E/S/T/J/F	
AF06164,S	C/E/S/T/J/F	call of an external procedure with 10 constrained l-dimensional integer array input arguments.
AF06165,S	C/E/S/T/J/F	
AF06166,S	C/E/S/T/J/F	
AF06167	C/E/S/T/J/F	Preference in an external procedure declared with 10 unconstrained 1-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj).

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u> <u>DESCRIPTION</u>
AF06168	C/E/S/T/J/F freference in an external procedure declared with 10 unconstrained 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) := constant (compare to AF05210).
AF06169	C/E/S/T/J/F \$reference in an external procedure declared with 10 unconstrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi): = ARG(TMPISj).
AF06173	C/E/S/T/J/F loop overhead for subsequent tests for external procedure calls of procedures declared with 10 unconstrained 2-dimensional integer array arguments, which are tests AF06174 AF06175 AF06176. The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the test but only used to construct it.
AF06174,S	C/E/S/T/J/F call of an external procedure with 10 constrained 2-dimensional integer array input arguments.
AF06175,S	C/E/S/T/J/F call of an external procedure with 10 constrained 2-dimensional integer array output arguments.
AF06176,S	C/E/S/T/J/F call of an external procedure with 10 constrained 2-dimensional integer array input/output arguments.
AF06177	C/E/S/T/J/F treference in an external procedure declared with 10 unconstrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj).
AF06178	C/E/S/T/J/F \$reference in an external procedure declared with 10 unconstrained 2-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) := constant (compare to AFO521H).
AF06179	C/E/S/T/J/F *reference in an external procedure declared with 10 unconstrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) := ARG(TMPISj,TMPISj).
AF06183	C/E/S/T/J/F loop overhead for subsequent tests for external procedure calls of procedures declared with 10 unconstrained 3-dimensional integer array arguments, which are tests AF06184 AF06185 AF06186. The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the test but only used to construct it.
AF06184,S	C/E/S/T/J/F call of an external procedure with 10 constrained 3-dimensional integer array input arguments.
AF06185,S	C/E/S/T/J/F call of an external procedure with 10 constrained 3-dimensional integer array output arguments.
AF06186,5	C/E/S/T/J/F call of an external procedure with 10 constrained 3-dimensional integer array input/output arguments.
AF06187	C/E/S/T/J/F \$reference in an external procedure declared with 10 unconstrained 3-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj,TMPISj).
AF06188	C/E/S/T/J/F treference in an external procedure declared with 10 unconstrained 3-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi,TMPISi) := constant (compare to AF0521I).
AF06189	<pre>C/E/S/T/J/F treference in an external procedure declared with 10 unconstrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi,TMPISi) := ARG(TMPISj,TMPISj).</pre>
AF06192	C/E/S/T/J loop overhead for subsequent tests for external procedure calls of procedures declared with 10 enumeration arguments, which are tests AF06193 AF06194 AF06195. The overhead includes all statements(including the invocation of a 9 argument external

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
		procedure) that are not part of the test but only used to construct it.
AF06193,S	C/E/S/T/J	call of an external procedure with 10 enumeration input arguments.
AF06194,S	C/E/S/T/J	call of an external procedure with 10 enumeration output arguments.
AF06195,S	C/E/S/T/J	call of an external procedure with 10 enumeration input/output arguments.
AF06196	C/E/S/T/J	reference in an external procedure to 10 enumeration input arguments with references to the aguments in 10 statements of the form TMPESi := ARGi.
AF06197	C/E/S/T/J	reference in an external procedure to 10 enumeration output arguments with references to the arguments in 10 statements of the form ARGi := TMPESi.
AF06198	C/E/S/T/J	reference in an external procedure to 10 enumeration input/output arguments with references to the arguments in 10 statements of the form ARGi = ARGj.
AF0619B	C/E/S/T/J	loop overhead for subsequent tests for external procedure calls of procedures declared with 10 unconstrained variant record arguments, which are tests AF0619C AF0619D AF0619E. The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the test but only used to construct it.
AF0619C,S	C/E/S/T/J	call of an external procedure with 10 unconstrained variant record input arguments.
AF0619D,S	C/E/S/T/J	call of an external procedure with 10 unconstrained variant record output arguments.
AF0619E,S	C/E/S/T/J	call of an external procedure with 10 unconstrained variant record input/output arguments.
AF0619F	C/E/S/T/J	reference in an external procedure to 10 unconstrained variant record input arguments with references to the arguments in 10 statements of the form TMPVSi := ARGi.
AF0619G	C/E/S/T/J	reference in an external procedure to 10 unconstrained variant record output arguments with references to the arguments in 10 statements of the form ARGi := TMPVSi.
AF0619H	C/E/S/T/J	reference in an external procedure to 10 unconstrained variant record input/output arguments with references to the arguments in 10 statements of the form ARGi := ARGi.
AF0619K	C/E/S/T/J	loop overhead for subsequent tests for external procedure calls of procedures declared with 10 record access arguments(type RECORD_POINTER), which are tests AF0619L AF0619M AF0619N. The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the test but only used to construct it.
AF0619L,S	C/E/S/T/J	call of an external procedure with 10 record access input arguments.
AF0619M,S	C/E/S/T/J	call of an external procedure with 10 record access output arguments.
AF0619N,S	C/E/S/T/J	call of an external procedure with 10 record access input/output arguments.
AF0619D	C/E/S/T/J	reference in an external procedure to 10 record access input arguments with references to the arguments in 10 statements of the form TMPPPi := ARGi.
AF0619P	C/E/S/T/J	reference in an external procedure to 10 record access output arguments with references to the arguments in 10 statements of the form ARGi := TMPPPi.
AF0619Q	C/E/S/T/J	reference in an external procedure to 10 record access input/output arguments with references to the arguments in 10 statements of the form ARGi := ARGj.
AFD6201	C/E/S/T/J	call of a local pragma inline procedure with no arguments.
AFD6209	C/E/S/T/J	call of a local pragma inline procedure with 1 integer

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AFD6210	C/E/S/T/J	input argument. call of a local pragma inline procedure with l integer
AFD6211	C/E/S/T/J	output argument. call of a local pragma inline procedure with l integer
AFD6213	C/E/S/T/J	input/output argument. loop overhead for subsequent tests for pragma inline procedure calls of procedures declared with 10 scalar integer arguments, which are tests AFD6214 AFD6215 AFD6216. The overhead includes all statements(including the invocation of a 0 argument local pragma inline procedure) that are not part of the test but
AFD6214,S	C/E/S/T/J	<pre>only used to construct it. call of a local pragma inline procedure with 10 integer input arguments.</pre>
AFD6215,S	C/E/S/T/J	call of a local pragma inline procedure with 10 integer output arguments.
AFD6216,S	C/E/S/T/J	call of a local pragma inline procedure with 10 integer input/output arguments.
AFD6217	C/E/S/T/J	freference in a local pragma inline procedure to 10 integer input arguments with references to the arguments in 10 statements of the form TMPISi := ARGi.
AFD6218	C/E/S/T/J	freference in a local pragma inline procedure to 10 integer output arguments with references to the arguments in 10 statements of the form ARGi := TMPISi.
AFD6219	C/E/S/T/J	**reference in a local pragma inline procedure to 10 integer input/output arguments with references to the arguments in 10 statements of the form ARGi := ARGi.
AFD6223	C/E/S/T/J	loop overhead for subsequent tests for local pragma inline procedure calls of procedures declared with 10 constrained integer array arguments, which are tests AFD6224 AFD6225 AFD6226 AFD6227 AFD6228 AFD6229 AFD6230 AFD6231 AFD6232. The overhead includes all statements(including the invocation of a 0 argument local pragma inline procedure) that are not part of the test but
AFD6224,5	C/E/S/T/J	only used to construct it. invocation of a local pragma inline procedure with 10
AFD6225,S	C/E/S/T/J	constrained l-dimensional integer array input arguments. invocation of a local pragma inline procedure with 10 constrained l-dimensional integer array output
AFD6226,S	C/E/S/T/J	arguments. invocation of a local pragma inline procedure with 10 constrained 1-dimensional integer array input/output arguments.
AFD6227,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 2-dimensional integer array input arguments.
AFD6228,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 2-dimensional integer array output arguments.
AFD6229,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 2-dimensional integer array input/output arguments.
AFD6230,S	C/E/S/T/J -	invocation of a local pragma inline procedure with 10
AFD6231,S	C/E/S/T/J	constrained 3-dimensional integer array input arguments. invocation of a local pragma inline procedure with 10 constrained 3-dimensional integer array output
AFD6232,S	C/E/S/T/J	arguments. invocation of a local pragma inline procedure with 10 constrained 5-dimensional integer array input/output
AFD6243	C/E/S/T/J	arguments. loop overhead for subsequent tests for local pragma inline procedure calls of procedures declared with 10 unconstrained integer array arguments, which are tests AFD6244 AFD6245 AFD6246 AFD6247 AFD6248 AFD6249 AFD6250 AFD6251 AFD6252 . The overhead includes all statements(

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
		including the invocation of a 0 argument local pragma inline procedure) that are not part of the test but only used to construct it.
AFD6244,5	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 1-dimensional integer array input arguments.
AFD6245,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 1-dimensional integer array output arguments.
AFD6246,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 1-dimensional integer array input/output
AFD6247,S	C/E/S/T/J	arguments. invocation of a local pragma inline procedure with 10 constrained 2-dimensional integer array input arguments.
AFD6248,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 2-dimensional integer array output arguments.
AFD6249,5	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 2-dimensional integer array input/output arguments.
AFD6250,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 3-dimensional integer array input arguments.
AFD6251,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 3-dimensional integer array output arguments.
AFD6252,S	C/E/S/T/J	invocation of a local pragma inline procedure with 10 constrained 3-dimensional integer array input/output arguments.
AFD6260	C/E/S/T	<pre>freference in a local pragma inline procedure declared with 10 constrained 1-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj).</pre>
AFD6261	C/E/S/T	*reference in a local pragma inline procedure declared with 10 constrained 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) := constant (compare to AF05210).
AFD6262	C/E/S/T	freference in a local pragma inline procedure declared with 10 constrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi) := ARG(TMPISj).
AFD6263	C/E/S/T	<pre>\$reference in a local pragma inline procedure declared with 10 constrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj).</pre>
AFD6264	C/E/S/T	<pre>\$reference in a local pragma inline procedure declared with 10 constrained 2-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) == constant (compare to AF0521H).</pre>
AFD6265	C/E/S/T	<pre>\$reference in a local pragma inline procedure declared with 10 constrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) := ARG(TMPISj,TMPISj).</pre>
AFD6266	C/E/S/T	freference in a local pragma inline procedure declared with 10 constrained 3-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj,TMPISj).
AFD6267	C/E/S/T	freference in a local pragma inline procedure declared with 10 constrained 3-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi,TMPISi) := constant (compare to AF0521I).
AFD6268	C/E/S/T	<pre>freference in a local pragma inline procedure declared with 10 constrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi,TMPISi) = ARG(TMPISj,</pre>

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>YERSIONS</u>	DESCRIPTION
AFD6270	C/E/S/T	TMPISj,TMPISj). Preference in a local pragma inline procedure declared with 10 unconstrained 1-dimensional integer array input arguments to an argument in 10 statements of the form
AFD6271	C/E/S/T	TMPISi := ARG(TMPISj). \$reference in a local pragma inline procedure declared with 10 unconstrained 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) := constant (compare to AF05210).
AFD6272	C/E/S/T	<pre>\$reference in a local pragma inline procedure declared with 10 unconstrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi) := ARG(TMPISj).</pre>
AFD6273	C/E/S/T	treference in a local pragma inline procedure declared with 10 unconstrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj).
AFD6274	C/E/S/T	*reference in a local pragma inline procedure declared with 10 unconstrained 2-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) := constant (compare to AF0521H)
AFD6275	C/E/S/T	treference in a local pragma inline procedure declared with 10 unconstrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) := ARG(TMPISj,TMPISj).
AFD6276	C/E/S/T	treference in a local pragma inline procedure declared with 10 unconstrained 3-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPIS),TMPIS),TMPIS).
AFD6277	C/E/S/T	Preference in a local pragma inline procedure declared with 10 unconstrained 3-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi,TMPISi) := constant (compare to AF0521I).
AFD6278	C/E/S/T	**reference in a local pragma inline procedure declared with 10 unconstrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi,TMPISi) := ARG(TMPISj,TMPISj,TMPISj).
AFD6301	C/E/S/T	invocation of an external pragma inline procedure with 0 arouments.
AFD6309	C/E/S/T	invocation of an external pragma inline procedure with l scalar integer input argument.
AFD6310	C/E/S/T	invocation of an external pragma inline procedure with l scalar integer output argument.
AFD6311	C/E/S/T	invocation of an external pragma inline procedure with l scalar integer input/output argument.
AFD6313	C/E/S/T	test loop overhead for external pragma inline procedure calls of procedures declared with 10 scalar integer arguments, which are tests AFD6314 AFD6315 AFD6316. The overhead includes all statements (including the invocation of a 0 argument external pragma inline procedure) that are not part of the test but only used to construct it.
AFD6314,S	C/E/S/T	invocation of an external pragma inline procedure with 10 scalar integer input arguments.
AFD6315,S	C/E/S/T	invocation of an external pragma inline procedure with 10 scalar integer output arguments.
AFD6316,S	C/E/S/T	invocation of an external pragma inline procedure with 10 scalar integer input/output arguments.
AFD6317	C/E/S/T	fraference in an external pragma inline procedure to 10 scalar integer input arguments with references to the arguments in 10 statements of the form TMPISi := ARGi.
AFD6318	C/E/S/T	Preference in an external pragma inline precedure to 10

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

JEST NAME	<u>YERSIONS</u>	DESCRIPTION
AFD6319	C/E/S/T	scalar integer output arguments with references to the arguments in 10 statements of the form ARGi :* TMPISi. *reference in an external pragma inline procedure to 10 scalar integer input/output arguments with references to the arguments in 10 statements of the form ARGi :* ARGi.
AFD6333	C/E/S/T	loop overhead for subsequent tests for external pragma inline procedure calls of procedures declared with 10 constrained 1-dimensional integer array arguments, which are tests AFD6334 AFD6335 AFD6336. The overhead includes all statements (including the invocation of a 0 argument external pragma inline procedure) that are not part of the test but only used to construct it.
AFD6334,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 1-dimensional integer array input arguments.
AFD6335,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 1-dimensional integer array output arguments.
AFD6336,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 1-dimensional integer array input/output arguments.
AFD6337	C/E/S/T	#reference in an external pragma inline procedure declared with 10 constrained 1-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi == ARG(TMPISj).
AFD6338	C/E/S/T	Preference in an external pragma inline procedure declared with 10 constrained 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) : constant (compare to AF05210)
AFD6339	C/E/S/T	treference in an external pragma inline procedure declared with 10 constrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi) := ARG(TMPISj).
AFD6343	C/E/S/T	loop overhead for subsequent tests for external pragma inline procedure calls of procedures declared with 10 constrained 2-dimensional integer array arguments, which are tests AFD6344 AFD6345 AFD6346. The overhead includes all statements (including the invocation of a 0 argument external pragma inline procedure) that are
AFD6344,S	C/E/S/T	not part of the test but only used to construct it. call of an external pragma inline procedure with 10 constrained 2-dimensional integer array input arguments.
AFD6345,S	C/E/S/T	constrained 2-dimensional integer array input arguments. call of an external pragma inline procedure with 10 constrained 2-dimensional integer array output arguments.
AFD6346,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 2-dimensional integer array input/output arguments.
AFD6347	C/E/S/T	**reference in an external pragma inline procedure with 10 constrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi : ARG(TMPISj,TMPISj).
AFD6348	C/E/S/T	freference in an external pragma inline procedure declared with 10 constrained 2-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) : constant (compare to AF0521H).
AFD6349	C/E/S/T	freference in an external pragma inline procedure declared with 10 constrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) := ARG(TMPISj,TMPISj).
AFD6353	C/E/S/T	loop overhead for subsequent tests for external pragma inline procedure calls of procedures declared with 10

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
		constrained 3-dimensional integer array arguments, which are tests AFD6354 AFD6355 AFD6356. The overhead includes all statements (including the invocation of a 0 argument external pragma inline procedure) that are not part of the test but only used to construct it.
AFD6354,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 5-dimensional integer array input arguments.
AFD6355,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 3-dimensional integer array output arguments.
AFD6356,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 3-dimensional integer array input/output arguments.
AFD6357	C/E/S/T	<pre>\$reference in an external pragma inline procedure declared with 10 constrained 3-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj,TMPISj).</pre>
AFD6358	C/E/S/T	<pre>\$reference in an external pragma inline procedure declared with 10 constrained 3-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi,TMPISi) := constant(compare to AF05211).</pre>
AFD6359	C/E/S/T	<pre>freference in an external pragma inline procedure declared with 10 constrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi,TMPISi) := ARG(TMPISj,TMPISj,TMPISj).</pre>
AFD6363	C/E/S/T	loop overhead for subsequent tests for external pragma inline procedure calls of procedures declared with 10 unconstrained 1-dimensional integer array arguments, which are tests AFD6364 AFD6365 AFD6366. The overhead includes all statements (including the invocation of a 0 argument external pragma inline procedure) that are not part of the test but only used to construct it.
AFD6364,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 1-dimensional integer array input arguments.
AFD6365,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained l-dimensional integer array output arguments.
AFD6366.S	C/E/S/T	call of an external pragma inline procedure with 10 constrained l-dimensional integer array input/output arguments.
AFD6367	C/E/S/T	freference in an external pragma inline procedure declared with 10 unconstrained 1-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj).
AFD6368	C/E/S/T	<pre>freference in an external pragma inline procedure declared with 10 unconstrained 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) ₁= constant (compare to AF05210)</pre>
AFD6369	C/E/S/T	<pre>freference in an external pragma inline procedure declared with 10 unconstrained 1-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi) := ARG(TMPISj).</pre>
AFD6373	C/E/S/T	loop everhead for subsequent tests for external pragma inline procedure calls of procedures declared with 10 unconstrained 2-dimensional integer array arguments, which are tests AFD6374 AFD6375 AFD6376. The overhead includes all statements (including the invocation of a 0 argument external pragma inline procedure) that are not part of the test but only used to construct it.
AFD6374,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 2-dimensional integer array input arguments.
AFD6375,S	C/E/S/T	call of an external pragma inline procedure with 10

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>YERSIONS</u>	DESCRIPTION
		constrained 2-dimensional integer array output arguments.
AFD6376,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 2-dimensional integer array input/output arguments.
AFD6377	C/E/S/T	**Treference in an external pragma inline procedure declared with 10 unconstrained 2-dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPIS),TMPIS).
AFD6378	C/E/S/T	<pre>\$reference in an external pragma inline procedure declared with 10 unconstrained 2-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi) 1= constant (compare to AF0521H).</pre>
AFD6379	C/E/S/T	<pre>freference in an external pragma inline procedure declared with 10 unconstrained 2-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi) := ARG(TMPISj, TMPISj).</pre>
AFD6383	C/E/S/T	loop overhead for subsequent tests for external pragma inline procedure calls of procedures with 10 unconstrained 3-dimensional integer array arguments, which are tests AFD6384 AFD6385 AFD6386. The overhead includes all statements (including the invocation of a 0 argument external pragma inline procedure) that are not part of the test but only used to construct it.
AFD6384,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 5-dimensional integer array input arguments.
AFD6385,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 3-dimensional integer array output arguments.
AFD6386,S	C/E/S/T	call of an external pragma inline procedure with 10 constrained 3-dimensional integer array input/output arguments.
AFD6387	C/E/S/T	<pre>\$reference in an external pragma inline procedure declared with 10 unconstrained 3~dimensional integer array input arguments to an argument in 10 statements of the form TMPISi := ARG(TMPISj,TMPISj,TMPISj).</pre>
AFD6388	C/E/S/T	<pre>\$reference in an external pragma inline procedure declared with 10 unconstrained 3-dimensional integer array output arguments to an argument in 5 statements of the form ARG(TMPISi,TMPISi,TMPISi) := constant(compare to AF0521I).</pre>
AFD6389	C/E/S/T	<pre>\$reference in an external pragma inline procedure declared with 10 unconstrained 3-dimensional integer array input/output arguments to an argument in 10 statements of the form ARG(TMPISi,TMPISi,TMPISi) := ARG(TMPISi,TMPISi,TMPISi).</pre>
AF06423	C/E/S/T	loop overhead for subsequent tests for external procedure calls with 10 arguments with default parameter values. The tests are AF06424, AF06425, AF06426, AF06427, AF06428, AF06429, AF0642A. The overhead includes all statements (including the invocation of a 0 argument external procedure) that are not part of the test but only used to construct it.
AF06424,S	C/E/S/T	call of an external procedure declared with 10 integer input arguments with default values. The procedure is called with 10 actual arguments. Compare to AF06114.
AF06425.5	C/E/S/T	call of an external procedure declared with 10 integer input arguments with default values. The procedure is called with 0 actual arguments. Compare to AF06114, AF06424.
AF06426,S	C/E/S/T	call of an external procedure declared with 10 constrained 1-dimensional integer array input arguments

[#] run statistic #2 = size of return statement code

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AF06427,S	C/E/S/T	with default values. The procedure is called with 10 actual arguments. Compare to AF06134. call of an external procedure declared with 10 constrained 1-dimensional integer array input arguments with default values. The procedure is called with 0
AF06428,S	C/E/S/T	actual arguments. Compare to AF06134,AF06426. call of an external procedure declared with 10 record input arguments with default values. The procedure is called with 10 actual arguments.
AF06429,S	C/E/S/T	call of an external procedure declared with 10 record input arguments with default values. The procedure is
AF0642A	C/E/S/T	called with 0 actual arguments. Compare to AF06428. reference in an external procedure to 10 integer input arguments with references to the arguments in 10 statements of the form TMPISi := ARGi. The arguments are declared with default values. The procedure is called with 0 arguments. Compare to AF06117.
AF06802	C/E/S/T/J/F	
AF06806	C/E/S/T/J/F	local scalar integer variable reference from within a called procedure(compare to AFD6802).
AF06808	C/E/S/T/J	local record access variable reference from within a called procedure in 10 statements of the form ARGi := ARGj. The access variable type is globally declared(RECORD_POINTER). Compare to AFO520R.
AF0680A	C/E/S/T/J	local record access variable reference from within a called procedure in 10 statements of the form LOCi.all == LOCj.all . The access variable type is globally
AF0680C	C/E/S/T/J	declared(RECORD_POINTER). Compare to AF0520S. local record access variable reference from within a called procedure in 10 statements of the form LOCi := LOCj . The access type used is locally declared. The storage_size attribute for the access type is determined by the compiler and placed in run statistic
AF0680E	C/E/S/T/J	#2. Compare to AF06808. local record access variable reference from within a called procedure in 10 statements of the form LOCi.all := LOCj.all . The access type used is locally declared. The storage_size attribute for the access type is determined by the compiler and placed in run statistic #2.
AFD680G	C/E/S/T/J	local record access variable reference from within a called procedure in 10 statements of the form LOCi := LOCj . The access type used is locally declared. The storage_size attribute for the access type is set by the test program and placed in run statistic \$2. Compare to AF0680C.
AFD6801	C/E/S/T/J	local record access variable reference from within a called procedure in 10 statements of the form LOCi.all = LOCj.all . The access type used is locally declared. The storage_size attribute for the access type is set by the test program and placed in run statistic \$2. Compare to AF0680E.
AF06810	C/E/S/T/J	local scalar integer variable reference - 1 procedure level up (compare to AF06806).
AF06814	C/E/S/T/J	local scalar integer variable reference - 2 procedure levels up (compare to AF06806).
AF06816	C/E/S/T/J/F	local 1-dimensional array element references(compare to AF05210).
AF06818	C/E/S/T/J/F	local 2-dimensional array element references(compare to AF0521H).
AF06820	C/E/S/T/J/F	local 3-dimensional array element references(compare to AF05211).
AF06822	C/E/S/T/J	local unconstrained variant record reference from within a called procedure in 10 statements of the form

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AF06824	C/E/S/T/J	LOCi.COMP_II = LOCj.COMP_II. Compare to AF0413D. local constrained variant record reference from within a called procedure in 10 statements of the form
AFN9301	C/E/S/T	LOCi.COMP_II = LOCj.COMP_II. Compare to AF06822. declaration/activation of a single low priority task within a block statement. Control is not transferred to the low priority task.
AFN9302	C/E/S/T	declaration/activation of a single high priority task within a block statement. Control is transferred to the
AFN9303	C/E/S/T	high priority task. declaration/activation of 10 low priority tasks within a a block statement. Control is not transferred to the
AF09501	C/E/S/T	low priority task(compare to AFN9301). rendezvous with a 0-argument task entry. Run statistic 82 = storage_size attribute of the called task.
AF09502	C/E/S/T	rendezvous with a 0-argument task entry that is the last(5th) accept alternative in a select statement(compare to AF09501). Run statistic #2 = storage_size attribute
AF09503	C/E/S/T	of the called task. rendezvous with a task entry with 10 integer scalar input arguments. Run statistic \$2 = storage_size attribute of the called task.
AF09504	C/E/S/T	rendezvous with a task entry with 10 integer scalar output arguments. Run statistic #2 = storage_size
AF09505	C/E/S/T	attribute of the called task. rendezvous with a task entry with 10 1-dimensional integer array output arguments. Run statistic 82 =
AF09506	C/E/S/T	storage_size attribute of the called task. reference in a task accept statement to 10 integer scalar input arguments with references to the arguments in 10 statements of the form TMPISi := ARGi(compare to
AF09507	C/E/S/T	AFD6117). reference in a task accept statement with 10 1-dimensional integer array output arguments to an argument in 10 statements of the form ARG(TMPISi) :=
AF09508	C/E/S/T	constant. Compare to AF06168. local scalar integer variable reference from within a
AF09509	C/E/S/T	task accept statement(compare to AF06806). global scalar integer variable reference from within a
AFN9511	C/E/S/T	task accept statement(compare to AF06802,AF09508). queue an entry call to a suspended task,suspend the caller and transfer control to a lower priority task.
AF09600	C/E/S/T	references to the clock function in 10 assignment statements of the form: time_i := clock.
AF09601	C/E/S/T	references to the seconds function in 10 assignment statements of the form: DURATION_i := seconds(TIME_i).
AF09602	C/E/S/T	references to the split procedure in 5 statements of the form: split(TIME_i,TMPISi,TMPISj,TMPISk,DURATION_i).
AF09603	C/E/S/T	references to the time_of function in 10 assignment statements of the form: TIME_i = time_of(TMPISi,TMPISj, TMPISk,DURATION_1).
AF09604	C/E/S/T	<pre>10 assignment statements that add values of type duration to those of type time(TIME_i := TIME_i +</pre>
AF09605	C/E/S/T	DURATION_i). 10 assignment statements involving subtraction of values 24 April 10
AF09606	C/E/S/T	of type time(DURATION_i := TIME_i - TIME_0). 10 boolean assignments involving values of type time in statements of the following form: TMPBSi := TIME_i < TIME_j.
AF09607	C/E/S/T	10 conversions of type duration to type float in 10 statements of the form: TMPRSi := our_float(DURATION_i).
AFN9611	C/E/S/T	wake up from a delay statement with no other tasks executing (test_time = time_awaken - time_delay_expires)
AFN9612	C/E/S/T	wake up from a delay statement with 5 low priority tasks executing in an interleaved fashion through use of

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AFN9613	C/E/S/T	<pre>delay statements (test_time = time_awaken - time_delay_expires). transfer control to a low priority task not in a wait state after execution of a delay statement in a high priority task. The test time includes the time to</pre>
AF09710	C/E/S/T	execute the delay statement. execution of a selective wait statement with 4 select alternatives (accept statements) and an else part. The else part is executed. Run statistic \$2 = storage_size
AF09712	C/E/S/T	attribute of the test task. execution of a selective weit statement with 4 select alternatives (accept statements) and an else part. Each accept statement is guarded with a test of the count attribute of an entry queue. The else part is executed. Run statistic \$2 = storage_size attribute of the test task.
AF09720	C/E/S/T	conditional entry call, call immediately taken. Compare to AF09501. Run statistic 82 = storage_size attribute of the called task.
AF09721	C/E/S/T	conditional entry call, else part(null) taken. Run statistic #2 * storage_size attribute of the called task.
AF09731	C/E/S/T	timed entry call,call immediately taken. Compare to AF09501,AF09720. Run statistic #2 = storage_size
AF09901	C/E/S/T	attribute of the called task. references to the callable attribute of tasks in 10 assignment statements of the form: TMPBSi := tasks(i)
AF09902	C/E/S/T	<pre>"callable. references to the terminated attribute of tasks in 10 assignment statements of the form: TMPBSi := tasks(i)</pre>
AF09903	C/E/S/T	"terminated. references to the count attribute of task entries in 10 assignment statements of the form: TMPBSi :=
AFM9A01	C/E/S/T	entry_i'count. l abort statement issued from within a block statement aborting a single task created within the block. The
AFM9A02	C/E/S/T	task is weiting at an accept statement. 1 abort statement issued from within a block statement aborting 10 tasks created within the block. The tasks
AFM9A03	C/E/S/T	are weiting at accept statements. Compare to AFM9A01. execution of 1 abort statement from within a block and exit from the block. The abort statement aborts 10
AF09B01	C/E/S/T	tasks waiting at accept statements. Compare to AFM9AU2. shared global scalar integer variable reference from
AFD9C00	C/E/S/T	within a task accept statement(compare to AF09509). execution of a work-load from a main program with no subordinate tasks and without a priority pragma.
AFD9C01	C/E/S/T	execution of a work-load by a single subordinate task. Compare to AFD9C00 to see the effect of task scheduling overhead. (run statistic %) = storage_size attribute of
AFD9C02,I	C/E/S/T	the subordinate task type). execution of a work-load by 5 subordinate tasks. Compare to AFD9C00,AFD9C01 to see the effect of task scheduling everhead(run statistics 1-5 in AFI9C02 contain the task
AFD9C03.1	C/E/S/T	iteration counts in the order the tasks were created). execution of a work-load by 5 subordinate tasks with a forced time-slice interval(VAX=.0lsecs). Compare to AFD9C02 to see the effect of forced time-slicing (run statistics 1-5 in AFI9C03 contain the task iteration counts in the order the tasks were created).
AFD9C04,I	C/E/S/T	execution of a work-load by 20 subordinate tasks with a forced time-slice interval(VAX=.0lsecs). Compare to AFD9C03 to see the effect of task-scheduling overhead.(run statistics 1-4 in AFI9C04 contain the total, maximum, minimum and median task iteration counts).

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AFMB001	C/S/T	reise/deliver a user defined exception and test for it
AFMB003	C/S/T	with the exception choice others. reise/deliver a user defined exception and test for 5 predefined exceptions and then for the user defined
AFMB005	C/S/T	exception (compare to AFMB001). reise/deliver a numeric error pre-defined exception(
AFMB007	S/T	divide by zero: tmpis1:=tmpis2/tmpis0). raise/deliver_a numeric range constraint error exception
AFMB009	S/T	<pre>(tmpil:=tmpis0). raise/deliver an index range constraint error exception(</pre>
AFMB012	C/S/T	<pre>tmpial(tmpis0) := 0). raise/deliver a user defined exception which is automatically propagated 1 procedure level upward(propagation time=AFMB012~AFMB001).</pre>
AFMB016	C/S/T	rejaction time-Armbulz-Armbull. rejac/deliver a user defined exception which is eutomatically propagated 2 procedure levels upward(propagation time=AFMB016-AFMB001).
AFMB020	C/S/T	reise/deliver a user defined exception. Use raise statements to propagate the exception to a handler 2 procedure levels upward(compare to AFMB016).
AFMB024	S/T	detect/deliver a numeric error exception(divide by 0) which is automatically propagated 2 procedure levels upward (propagation time=AFMB024-AFMB005. Compare to AFMB016).
AFMB028	S/T	<pre>detect/deliver a numeric error exception(divide by 0). Use raise statements to propagate the exception to a handler 2 procedure levels upward(compare to AFMB024).</pre>
AFMB032	e/s/t	raise/deliver a user defined exception which is automatically propagated 2 procedure levels upward(propagation time=AFMB032-AFMB001). Each procedure has
AFMB036	C/S/T	10 scalar output arguments(compare to AFMB016). raise/deliver a user defined exception. Use raise statements to propagate the exception to a handler 2 procedure levels upward. Each procedure has 10 scalar output arguments(compare to AFMB020, AFMB032).
AFMB040	S/T	detect/deliver a numeric error exception(divide by 0) which is automatically propagated 2 procedure levels upward (propagation time *AFMB040-AFMB005). Each procedure has 10 scalar output arguments(compare to AFMB024, AFMB032).
AFMB044	C/S/T	detect/deliver a numeric error exception(divide by 0). Use raise statements to propagate the exception to a handler 2 procedure levels upward. Each procedure has 10 scalar output arguments(compare to AFMB028, AFMB040).
AF0C300	C/E/S/T	non-generic version of test AFOC301 with which its compared (AFCC301 = AFOC301/AFOC300).
AF0C301.C	C/E/S/T	tests execution of a procedure derived from instantiation of a generic package containing a procedure whose compiled code should be the same for each instantiation (only instantiate for unconstrained floating point vectors).
AFOC302	C/E/S/T	mame test as AFOC301, except the generic package is instantiated with 3 different numeric types(integer, float, boolean). All three instantiations are referenced. Only the floating point procedure is timed. Compare to AFOC301 to see if memory requirements are greater (i.e. are separate copies of the generic procedure generated for each instantiation?).
AFOC303	C/E/S/T	non-generic version of test AFOC304 with which its compared (AFCC304 = AFOC304/AFOC303).
AFOC304,C	C/E/S/T	tests execution of a function derived from instantiation of a generic package containing vector functions(+,-,\mathbb{X}, \times) whose compiled code should be different for each instantiation (only instantiate for unconstrained floating point vectors). Only the + function is

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AF0C305	C/E/S/T	referenced or executed. same test as AFOC304, except all functions in the instantiated package are referenced but only the + function is timed. Compare to AFOC304 to see if the memory requirements are greater in this test(i.e. are unreferenced instantiated functions included in the
AF0C306	C/E/S/T	load module). same test as AFOC305, except the generic package is instantiated for 2 datatypes (integer, floating point). Only the floating point instantiation is referenced or timed. Compare memory requirements to AFOC305(i.e. are
AF0C307	C/E/S/T	unreferenced instantiations included in the load module) mame test as AFOC306, except all package instantiations are referenced. Compare to AFOC306, AFOC305 (note: execution time and memory requirements will differ depending on whether or not a new copy of a function is generated for each instantiation).
AFDC310	C/E/S/T	non-generic version of test AFDC311 with which its compared (AFCC311 = AFDC311/AFDC310).
AFDC311,C	C/E/S/T	tests execution of an inline procedure derived from instantiation of a generic package containing an inline procedure whose compiled code should be the same for each instantiation (only instantiate for unconstrained
AFDC313	C/E/S/T	floating point vectors). Compare to AFOC301. non-generic version of test AFDC314 with which its
AFDC314,C	C/E/S/T	compared (AFCC314 = AFDC314/AFDC313). tests execution of an inline function derived from instantiation of a generic package containing inline vector functions(+,-,%,/) whose compiled code should be different for each instantiation (only instantiate for unconstrained floating point vectors). Only the +
AFDD600	C/E/S/T/J	function is referenced or executed. Compare to AFOC304. 3 statements changing representation of unpacked boolean
AFDD601	C/E/S/T/J	arrays (110) to packed boolean arrays. 3 statements changing representation of packed boolean
AFDD602	C/E/S/T/J	arrays (110) to unpacked boolean arrays. 10 statements changing representation from objects of enumeration type REP_MONTHS to values of type MONTHS.
AFDD603	C/E/S/T/J	10 statements changing representation from objects of
AFDD604	C/E/S/T/J	enumeration type MONTHS to values of type REP_MONTHS. 10 statements changing representation of packed records(
AFDD605	C/E/S/T/J	type PACK_RECORDS) to unpacked records(type RECORDS). 10 statements changing representation of unpacked records(type RECORDS) to packed records(type PACK_RECORDS).
AFDD606	C/E/S/T/J	10 statements changing representation of unpacked records(type RECORDS) to packed records(type REP_RECORDS).
AFDD607	C/E/S/T/J	10 statements changing representation of packed records(type REP_RECORDS) to unpacked records(type RECORDS).
AFDD608	C/E/S/T/J	10 statements changing representation of packed records(type REP_RECORDS) to packed records(type PACK_RECORDS).
AFDD609	C/E/S/T/J	10 statements changing representation of packed records(type PACK_RECORDS) to packed records(type REP_RECORDS).
AFDD610	C/E/S/T/J	10 statements changing representation of unpacked record variants (type VARIANT_RECORDS) to packed variant records (type PACKED_VARIANT).
AFDD611	C/E/S/T/J	10 statements changing representation of packed record variants(type PACKED_VARIANT) to unpacked record variants (type VARIANT_RECORDS).
AFOD720	S/T/J/F	displays in run statistic fields the size of objects used in tests and defined in package QURSYS. Run statistic 81 * bit size of objects of type integer. Run statistic 82 * bit size of objects which are 1-dimensional(10) integer arrays. Run statistic \$5 *

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AF0D721	S/T/J/F	bit size of objects which are 2-dimensional(3,3) integer arrays. Run statistic \$4 * bit size of objects which are 3-dimensional(3,3,3) integer arrays. Run statistic \$5 * bit size of objects of type positive. displays in run statistic fields the size of objects used in tests and defined in package OURSYS. Run statistic \$1 * bit size of objects of type float. Run statistic \$2 * bit size of objects which are 1-dimensional(10) float arrays. Run statistic \$3 = bit
AFDD722	S/T/J/F	size of objects which are 2-dimensional(3,3) float arrays. Run statistic #4 = bit size of objects which are 3-dimensional(3,3,3) float arrays. displays in run statistic fields the size of objects used in tests and defined in package DURTYP. Run statistic #1 = bit size of objects of type short_integer. Run statistic #2 = bit size of objects which are 1-dimensional(10) short_integer arrays. Run
AFDD723	S/T/J/F	statistic #3 = bit size of objects which are 2-dimensional(10,10) short_integer arrays. displays in run statistic fields the size of objects used in tests and defined in package OURTYP. Run statistic #1 = bit size of objects of type
AFDD724	S/T/F	short_short_integer. Run statistic #2 = bit size of objects which are 1-dimensional(10) short_short_integer arrays. Run statistic #3 = bit size of objects which are 2-dimensional(10,10) short_short_integer arrays. displays in run statistic fields the size of objects used in tests and defined in package OURTYP. Run statistic #1 = bit size of objects of type long_float. Run statistic #2 = bit size of objects which are 1-dimensional(10) long_float arrays. Run statistic #3 =
AFDD725	S/T/F	bit size of objects which are 2-dimensional(10,10) long_float arrays. displays in run statistic fields the size of objects used in tests and defined in package OURTYP. Run statistic #1 = bit size of objects of type long_long_float. Run statistic #2 = bit size of objects
AFDD726×	S/T/J/F	which are 1-dimensional(10) long_long_float arrays. Run statistic #3 = bit size of objects which are 2-dimensional(10,10) long_long_float arrays. displays in run statistic fields the size of objects used in tests and defined in package OURTYP. Run statistic #1 = bit size of objects of type d_float. Run statistic #2 = bit size of objects which are 1-dimensional(10) d_float arrays. Run statistic #3 =
AFOD727	S/T/J/F	bit size of objects which are 2-dimensional(10,10) d float arrays. displays in run statistic fields the size of objects used in tests and defined in package OURSYS. Run statistic \$1 = bit size of objects of type boolean. Run
AFOD728	S/T/J/F	statistic #2 = bit size of objects which are 1-dimensional(110) boolean arrays. Run statistic #3 = bit size of objects which are 2-dimensional(3,3) boolean arrays. Run statistic #4 = bit size of objects which are 3-dimensional(3,3,3) boolean arrays. displays in run statistic fields the size of objects used in tests and defined in packages DURSYS,DURSPC. Run statistic #1 = bit size of objects which are 10 character strings. Run statistic #2 = bit size of objects which are 20 character strings. Run statistic #3 = bit size of objects which are 30 character strings. Run statistic #4 = bit size of objects of type MONTHS.
AFOD729	S/T/J	displays in run statistic fields the size of objects used in tests and defined in package DURSPC. Run

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AFDD72A	S/T/J	statistic %1 * bit size of objects which are records of type RECORDS. Run statistic %2 * bit size of objects which are 1-dimensional arrays whose components are of type RECORDS. Run statistic %3 * bit size of objects which are unconstrained variants of the discriminated record type VARIANT_RECORDS. Run statistic %4 * bit size of objects which are records of type RECORD_TYPE. Run statistic %5 * bit size of objects which are access variables of type RECORD_POINTER. displays in run statistic fields the size of objects used in tests and defined in package DURSPC. Run statistic %1 * bit size of objects which are packed records of type PACKED_RECORDS. Compare to run statistic %1 in AFOD729. Run statistic %2 * bit size of objects which are 1-dimensional arrays whose components are of type PACKED_RECORDS. Compare to run statistic %2 in AFOD729. Run statistic %3 * bit size of objects which are unconstrained variants of the discriminated record type PACKED_VARIANT. Compare to run statistic %3
AFDD72B	S/T/J	in AFOD729. Run statistic \$4 = bit size of objects which are packed \$0 character strings. Compare to run statistic \$3 in AFOD728. Run statistic \$5 = bit size of objects which are packed 1-dimensional(110) boolean arrays. Compare to run statistic \$2 in AFOD727. displays in run statistic fields the size of objects used in tests and defined in package OURSPC. Run statistic \$1 = bit size of objects which are packed records of type REP_RECORDS. Compare to run statistic \$1 in AFOD72A, AFOD729. Run statistic \$2 = bit size of objects which are 1-dimensional arrays whose components are of type REP_RECORDS. Compare to run statistic \$2 in AFOD72A, AFOD729. Run statistic \$3 = bit size of objects of type REP_MONTHS. Compare to run statistic \$4 in
AFDD72C	S/T/J	AFOD728. displays in run statistic fields the size of objects used in tests and defined in package OURSPC. Run statistic 81 = bit size of Pointer_Comp component of objects of type RECORD_TYPE. Run statistic 82 = bit size of Enum_Comp component of objects of type RECORD_TYPE. Run statistic 83 = bit size of Int_Comp component of objects of type RECORD_TYPE. Run statistic 84 = bit size of String_30 component of objects of type RECORD_TYPE. Run statistic 85 = Storage'size attribute
AF0D72D	S/T/J	for access type RECORD_POINTER. displays in run statistic fields the size of components of record objects of type RECORDS used in tests and defined in package OURSPC. Run statistic #1 = bit size of comp_il component. Run statistic #2 = bit size of comp_i2 component. Run statistic #3 = bit size of comp_bl component. Run statistic #4 = bit size of comp_b2 component. Run statistic #5 = bit size of
AFDD72E	\$/T/J	comp_e component. displays in run statistic fields the size of components of record objects of type PACKED_RECORDS used in tests and defined in package OURSPC. Run statistic \$1 = bit size of comp_il component. Run statistic \$2 = bit size of comp_il component. Run statistic \$3 = bit size of comp_bl component. Run statistic \$4 = bit size of comp_bl component. Run statistic \$5 = bit size of comp_bl component. Run statistic \$5 = bit size of comp_e component. Compare to corresponding statistics
AFDD72F	S/T/J	in AFOD72D. displays in run statistic fields the size of components of record objects of type REP_RECORDS used in tests and defined in package DURSPC. Run statistic 01 = bit size of comp_il component. Run statistic 02 = bit size of

Table F-1 ACPS Test Descriptions (continued)

IEST NAME	VERSIONS	DESCRIPTION
AFDD72G	S/T/J	comp_i2 component. Run statistic \$3 = bit size of comp_bl component. Run statistic \$4 = bit size of comp_b2 component. Run statistic \$5 = bit size of comp_e component. Compare to corresponding statistics in AFOD72D, AFDD72E. displays in run statistic fields the size of components of record objects of type VARIANT_RECORDS used in tests and defined in package DURSPC. Run statistic \$1 = bit size of comp_il component. Run statistic \$2 = bit size of comp_bl component. Run statistic \$4 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component. Run statistic \$6 = bit size of comp_bl component.
AFDD72H	S/T/J	comp_b2 component. Run statistic \$5 = bit size of comp_e component. displays in run statistic fields the size of components of record objects of type PACKED_VARIANT used in tests and defined in package OURSPC. Run statistic \$1 = bit size of comp_il component. Run statistic \$2 = bit size of comp_i2 component. Run statistic \$3 = bit size of comp_bl component. Run statistic \$4 = bit size of comp_b2 component. Run statistic \$5 = bit size of comp_b2 component. Compare to corresponding statistics
AFDD72I	S/T/J	in AFDD72G. displays in run statistic fields the size of objects used in tests and defined in package OURSYS,OURSPC. Run statistic \$1 = bit size of objects which are packed 10 character strings. Run statistic \$2 = bit size of objects which are packed 20 character strings. Run statistic \$3 = bit size of objects which are packed 30 character strings. Run statistic \$4 = bit size of objects of type REP_MONTHS Compare to corresponding
AFDDA01	C/E/S/T/J	statistics in AFOD728. 10 Unchecked conversions of floating point operands to integer in 10 statements of the form: TMPISi :=
AFDDA02	C/E/S/T/J	float_to_integer(TMPRSi). 10 unchecked conversions of record objects of type REP_RECORDS to integer in 10 statements of the form: TMPRE:
AFDE201	C/E/S/T/F	TMPTS: := records_to_integer(TMPRRi). 1968 sequential file writes using an operand that is a scalar character variable. Output to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24 x 80).
AFDE202	C/E/S/T/F	1968 sequential file writes using an operand that is a lelement character array. Output to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24 x 80).
AFDE203	C/E/S/T/F	240 sequential file writes using an operand that is an 8 element array with character components. Output to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by
AFDE204	C/E/S/T/F	default 24 x 80). 24 sequential file writes using an operand that is an 82 element array of characters with embedded carriage control. Dutput to the file is 1968 characters(including carriage control) per iteration which fills a
AFDE205	C/E/S/T/F	DEC VT100 terminal screen (by default 24 x 80). 1 sequential file write using an operand that is a 1968 element array with character components. Dutput to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by
AFDE206	C/E/S/T/F	default 24 x 80). 8040 sequential file writes using an operand that is a scalar character variable. Output to the file is 8040 characters per iteration which fills a standard page of

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AFDE207	C/E/S/T/F	computer paper (by default 60 x 132). 8040 sequential file writes using an operand that is a 1 element character array. Output to the file is 8040 characters per iteration which fills a standard page of
AFDE208	C/E/S/T/F	computer paper (by default 60 x 132). 960 sequential file writes using an operand that is an 8 element array with character components. Output to the file is 7800 characters per iteration(including carriage control) which fills a standard page of
AFDE209	C/E/S/T/F	computer paper (by default 60 x 132). 60 sequential file writes using an operand that is an 82 element array of characters with embedded carriage control. Dutput to the file is 8040 characters per
AFDE20A	C/E/S/T/F	iteration which fills a standard page of computer paper (by default 60 x 132). 1 sequential file write using an operand that is a 8040 element array with character components. Output to the file is 8040 characters per iteration which fills a
AFDE211	C/E/S/T/F	standard page of computer paper (by default 60 x 132). 1 sequential file write using an operand that is a 512 element array with integer components. The output to
AFDE212	C/E/S/T/F	the file consists of 512 integers per iteration. 512 sequential file writes using an operand that is a scalar integer variable. Output to the file consists of
AFDE213	C/E/S/T/F	512 integers per iteration. 1 sequential file write using an operand that is a 512 element array with floating point components. The output to the file consists of 512 floating point
AFDE214	C/E/S/T/F	numbers per iteration. 512 sequential file writes using an operand that is a floating point scalar variable. Output to the file consists of 512 floating point numbers per iteration.
AFDE215	C/E/S/T/F	1 sequential file write using an operand that is a 512 element array with character components. The output to
AFDE216	C/E/S/T/F	the file consists of 512 characters per iteration. 512 sequential file writes using an operand that is a scalar character variable. Output to the file consists
AFDE231	C/E/S/T/F	of 512 characters per iteration. 1968 sequential file reads using an operand that is a scalar character variable. Input to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24)
AFDE232	C/E/S/T/F	x 80). 1968 sequential file reads using an operand that is a lelement character array. Input from the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24).
AFDE233	C/E/S/T/F	x 80). 240 sequential file reads using an operand that is an 8 element array with character components. Input from the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen(
AFDE234	C/E/S/T/F	by default 24 x 80). 24 sequential file reads using an operand that is an 82 element array of characters with embedded carriage control. Input to the file is 1968 characters(including carriage control) per iteration which fills a
AFDE235	C/E/S/T/F	DEC VT100 terminal screen (by default 24 x 80). 1 sequential file read using an operand that is a 1968 element array with character components. Input from the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen(
AFDE236	C/E/S/T/F	by default 24 x 80). 8040 sequential file reads using an operand that is a scalar character variable. Input to the file is 8040

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
AFDE237	C/E/S/T/F	characters per iteration which fills a standard page of computer paper (by default 60 x 132). 8040 sequential file reads using an operand that is a 1 element character array. Input from the file is 8040 characters per iteration which fills a standard page of
AFDE238	C/E/S/T/F	computer paper (by default 60 x 132). 960 sequential file reads using an operand that is an 8 element array with character components. Input from the file is 7800 characters per iteration(including carriage control) which fills a standard page of
AFDE239	C/E/S/T/F	computer paper (by default 60 x 132). 60 sequential file reads using an operand that is an 82 element array of characters with embedded carriage control. Input to the file is 8040 characters per iteration with fills a standard page of computer paper (by default 40 x 122).
AFDE23A	C/E/S/T/F	(by default 60 x 132). 1 sequential file read using an operand that is a 8040 element array with character components. Input from the file is 8040 characters per iteration which fills a standard page of computer paper (by default 60 x 132).
AFDE241	C/E/S/T/F	l sequential file read using an operand that is a 512 element array with integer components. Input from the file is a block of integers per iteration.
AFDE242	C/E/S/T/F	512 sequential file reads using an operand that is a scalar integer variable. Input from the file consists of 512 integers per iteration.
AFDE243	C/E/S/T/F	l sequential file read using an operand that is a 512 element array with floating point components. Input from the file consists of 512 floating point numbers
AFDE244	C/E/S/T/F	per iteration. 512 sequential file reads using an operand that is a floating point scalar variable. Input from the file
AFDE245	C/E/S/T/F	consists of 512 floating point numbers per iteration. 1 sequential file read using an operand that is a 512 element array with character components. Input from
AFDE246	C/E/S/T/F	the file consists of 512 characters per iteration. 512 sequential file reads using an operand that is a scalar character variable. Input from the file consists
AFDE401	C/E/S/T/F	of 512 characters per iteration. 1968 direct file writes using an operand that is a scalar character variable. Output to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24
AFDE402	C/E/S/T/F	x 80). 1968 direct file writes using an operand that is a lelement character array. Output to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24).
AFDE403	C/E/S/T/F	x 80). 240 direct file writes using an operand that is an 8 element array with character components. Output to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by
AFDE404	C/E/S/T/F	default 24 x 80). 24 direct file writes using an operand that is an 82 element array of characters with embedded carriage control. Dutput to the file is 1968 characters(including carriage control) per iteration which fills a
AFDE405	C/E/S/T/F	DEC VT100 terminal screen (by default 24 x 80). 1 direct file write using an operand that is a 1968 element array with character components. Output to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by
AFDE406	C/E/S/T/F	default 24 x 80). 8040 direct file writes using an operand that is a

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
		scalar character variable. Output to the file is 8040 characters per iteration which fills a standard page of computer paper (by default 60 x 132).
AFDE407	C/E/S/T/F	8040 direct file writes using an operand that is a 1 element character array. Output to the file is 8040 characters per iteration which fills a standard page of
AFDE408	C/E/S/T/F	computer paper (by default 60 x 132). 960 direct file writes using an operand that is an 8 element array with character components. Output to the file is 7800 characters per iteration(including
AFDE409	C/E/S/T/F	carriage control) which fills a standard page of computer paper (by default 60 x 132). 60 direct file writes using an operand that is an 82 element array of characters with embedded carriage control. Output to the file is 8040 characters per iteration which fills a standard page of computer paper
AFDE40A	C/E/S/T/F	(by default 60 x 132). 1 direct file write using an operand that is a 8040 element array with character components. Output to the file is 8040 characters per iteration which fills a
AFDE411	C/E/S/T/F	standard page of computer paper (by default 60 x 132). 1 direct file write using an operand that is a 512 element array with integer components. The output to
AFDE412	C/E/S/T/F	the file consists of 512 integers per iteration. 512 direct file writes using an operand that is a scalar integer variable. Dutput to the file consists of 512
AFDE413	C/E/S/T/F	integers per iteration. 1 direct file write using an operand that is a 512 element array with floating point components. The output to the file consists of 512 floating point
AFDE414	C/E/S/T/F	numbers per iteration. 512 direct file writes using an operand that is a floating point scalar variable. Output to the file
AFDE415	C/E/S/T/F	consists of 512 floating point numbers per iteration. 1 direct file write using an operand that is a 512 element array with character components. The output to
AFDE416	C/E/S/T/F	the file consists of 512 characters per iteration. 512 direct file writes using an operand that is a scalar character variable. Output to the file consists of 512 characters per iteration.
AFDE431	C/E/S/T/F	1968 direct file reads using an operand that is a scalar character variable. Input to the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24
AFDE432	C/E/S/T/F	x 80). 1968 direct file reads using an operand that is a lelement character array. Input from the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen (by default 24
AFDE433	C/E/S/T/F	x 80). 240 direct file reads using an operand that is an 8 element array with character components. Input from the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen(
AFDE434	C/E/S/T/F	by default 24 x 80). 24 direct file reads using an operand that is an 82 element array of characters with embedded carriage control. Input to the file is 1968 characters(including carriage control) per iteration which fills a
AFDE435	C/E/S/T/F	DEC VT100 terminal screen (by default 24 x 80). 1 direct file read using an operand that is a 1968 element array with character components. Input from the file is 1968 characters(including carriage control) per iteration which fills a DEC VT100 terminal screen(by default 24 x 80).

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
AFDE436	C/E/S/T/F	8040 direct file reads using an operand that is a scalar character variable. Input to the file is 8040 characters per iteration which fills a standard page of
AFDE437	C/E/S/T/F	computer paper (by default 60 x 132). 8040 direct file reads using an operand that is a l element character array. Input from the file is 8040 characters per iteration which fills a standard page of
AFDE438	C/E/S/T/F	computer paper (by default 60 x 132). 960 direct file reads using an operand that is an 8 element array with character components. Input from the file is 7800 characters per iteration(including carriage control) which fills a standard page of
AFDE439	C/E/S/T/F	computer paper (by default 60 x 132). 60 direct file reads using an operand that is an 82 element array of characters with embedded carriage control. Input to the file is 8040 characters per
AFDE43A	C/E/S/T/F	iteration which fills a standard page of computer paper (by default 60 x 132). 1 direct file read using an operand that is a 8040 element array with character components. Input from the file is 8040 characters per iteration which fills a
AFDE441	C/E/S/T/F	standard page of computer paper (by default 60 x 132). 1 direct file read using an operand that is a 512 element array with integer components. Input from the
AFDE442	C/E/S/T/F	file is a block of integers per iteration. 512 direct file reads using an operand that is a scalar integer variable. Input from the file consists of 512
AFDE443	C/E/S/T/F	integers per iteration. 1 direct file read using an operand that is a 512 element array with floating point components. Input from the file consists of 512 floating point numbers
AFDE444	C/E/S/T/F	per iteration. 512 direct file reads using an operand that is a floating point scalar variable. Input from the file
AFDE445	C/E/S/T/F	consists of 512 floating point numbers per iteration. I direct file read using an operand that is a 512 element array with character components. Input from the file consists of 512 characters per iteration.
AFDE446	C/E/S/T/F	512 direct file reads using an operand that is a scalar character variable. Input from the file consists of 512 characters per iteration.
AFDF000	C/E/S/T/J/F	2 assignment statements of the form x := sin(y) where x, y are scalar variables.
AFDF001	C/E/S/T/J/F	<pre>2 assignment statements of the form x := atan(y) where x, y are scalar variables.</pre>
AFDF002	C/E/S/T/J/F	<pre>2 assignment statements of the form x := cos(y) where x, y are scalar variables.</pre>
AFDF003	C/E/S/T/J/F	2 assignment statements of the form x := sqrt(y) where x, y are scalar variables.
AFDF004	C/E/S/T/J/F	2 assignment statements of the form x (= exp(y) where x, y are scalar variables.
AFDF005	C/E/S/T/J/F	2 assignment statements of the form x := ln(y) where x,y are scalar variables.
AGD0001	C/E/S/T/J/F	the Mhetstone test as defined in the paper A Synthetic Benchmark published in the Computer Journal, Feb 1976 by Curnow and Michmann. Input/Output statements are not
AGD0003	C/E/S/T	executed. the Whetstone test as defined in the paper A Synthetic Benchmark published in the Computer Journal, Feb 1976 by Curnow and Michmann. The test uses predefined types integer and float for numeric types(compare to AGD0001
AGD0009	C/E/S/T/J	which uses our_integer and our_float). Input/Output statements are not executed. the Dhrystone test as defined in the paper DHRYSTONE: A Synthetic Benchmark published in the CACM, Oct 1984 by

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
TEST HOLLE	TENNAMIA	· · · · · · · · · · · · · · · · · · ·
AGDODOC	C/E/S/T/J	R.Wicker. Run statistic #1 = size in bits of objects of type Record_Type(default discriminant). ackermann's function as modified from the AdaTec Ada Fair test suite.
AGDOOOE	C/E/S/T/J/F	the Whetstone test as defined in the paper A Synthetic Benchmark published in the Computer Journal, Feb 1976 by Curnow and Michmann. Input/Output statements are not executed. external procedures are used rather than
AGNOOOK	C/E/S/T/J	local procedures. Compare to AGD0001. the Dhrystone test as defined in the paper DHRYSTONE: A Synthetic Benchmark published in the CACM, Oct 1984 by R. Nicker. The test makes multiple microsecond level measurements of the Dhrystone test without
AGD0039,I	C/E/S/T	initialization. execution of the Dhrystone test by 10 subordinate tasks. Run statistic #1 = storage_size attribute of the subordinate task type. Compare to AGD0009 to see the effect of multi-tasking. Run statistics 1-4 in AGI0039 contain the total,maximum,minimum,median task iteration counts.
AGD0049,I	C/E/S/T	execution of the Dhrystone test by 100 subordinate tasks. Run statistic #1 = storage_size attribute of the subordinate task type. Compare to AGD0009 to see the effect of multi-tasking. Run statistics 1-4 in AGI0049 contain the total, maximum, minimum, median task iteration counts.
AGD0059,I	C/E/S/T	execution of the Dhrystone test by 100 subordinate tasks with forced time-slicing(VAX*.01 secs.). Compare to AGD0049 to see the effect of forced time-slicing. Compare to AGD0009 to see the effect of multi-tasking. Run statistic #1 = storage_size attribute of the subordinate task type. Run statistics 1-4 in AGI0049 contain the total, maximum, minimum, median task iteration counts.
AL09101	C/E/S/T	execution of a workload to randomly access a 128 element integer array with no subordinate tasks and without a priority pragma.
AL09111	C/E/S/T	execution of a workload to randomly access a 12800 element integer array with no subordinate tasks and without a priority pragma.
AL09121	C/E/S/T	execution of a workload to randomly access a 64000 element integer array with no subordinate tasks and without a priority pragma. Compare to test AL09101.
AL09131	C/E/S/T	execution of a workload to randomly access a 128000 element integer array with no subordinate tasks and without a priority pragma. Compare to test AL09101.
ALD9202	C/E/S/T	execution of a workload to randomly access a 128 element integer array by 1 subordinate task. Compare to test ALO9101 to see the effect of task scheduling. Run statistic \$1 = storage_size attribute of the subordinate task type.
ALD9203,I	C/E/S/T	execution of a workload to randomly access a 128 element integer array by 10 subordinate tasks. Compare to ALO9101,ALD9202 to see the effect of multi-tasking. Run statistic \$1 = storage_size attribute of the subordinate task type. Run statistics 1-4 of ALI9203 contain the total, maximum, minimum, median task iteration counts.
ALD9204,I	C/E/S/T	execution of a workload to randomly access a 128 element integer array by 10 subordinate tasks with forced time-slicing. Compare to ALD9203 to see the effect of forced time-slicing. Run statistic 81 = storage_size attribute of the subordinate task type. Run statistics 1-4 of ALI9204 contain the total, meximum, minimum, median task iteration counts.

Table F-1 ACPS Test Descriptions (continued)

IEST NAME	<u>VERSIONS</u>	<u>DESCRIPTION</u>
ALD9212	C/E/S/T	execution of a workload to randomly access a 12800 element integer array by 1 subordinate task. Compare to test ALO9111 to see the effect of task scheduling. Run statistic 81 = storage_size attribute of the
ALD9213,I	C/E/S/T	subordinate task type. execution of a workload to randomly access a 12800 element integer array by 10 subordinate tasks. Compare to ALO9111,ALD9212 to see the effect of multi-tasking. Run statistic 81 = storage_size attribute of the subordinate task type. Run statistics 1-4 of ALI9213 contain the total,maximum,minimum,median task iteration counts.
ALD9214,I	C/E/S/T	execution of a workload to randomly access a 12800 element integer array by 10 subordinate tasks with forced time-slicing. Compare to ALD9213 to see the effect of forced time-slicing. Run statistic \$1 = storage_size attribute of the subordinate task type. Run statistics 1-4 of ALI9214 contain the total, maximum, minimum, median task iteration counts.
AL D9222	C/E/S/T	execution of a workload to randomly access a 64000 element integer array by 1 subordinate task. Compare to test AL09121 to see the effect of task scheduling. Run statistic \$1 = storage_size attribute of the subordinate task type.
AL D9223, I	C/E/S/T	execution of a workload to randomly access a 64000 element integer array by 10 subordinate tasks. Compare to AL09121, ALD9222 to see the effect of multi-tasking. Run statistic #1 = storage_size attribute of the subordinate task type. Run statistics 1-4 of AL19223 contain the total, maximum, minimum, median task iteration counts.
AL D9224, I	C/E/S/T	execution of a workload to randomly access a 64000 element integer array by 10 subordinate tasks with forced time-slicing. Compare to ALD9223 to see the effect of forced time-slicing. Run statistic \$1 = storage_size attribute of the subordinate task type. Run statistics 1-4 of ALI9224 contain the total, maximum, minimum, median task iteration counts.
AL D9232	C/E/S/T	execution of a workload to randomly access a 128000 element integer array by 1 subordinate task. Compare to test AL09131 to see the effect of task scheduling. Run statistic \$1 = storage_size attribute of the subordinate task type.
AL D9233, I	C/E/S/T	execution of a workload to randomly access a 128000 element integer array by 10 subordinate tasks. Compare to AL09131, ALD9232 to see the effect of multi-tasking. Run statistic #1 = storage_size attribute of the subordinate task type. Run statistics 1-4 of AL19233 contain the total, maximum, minimum, median task iteration counts.
AL D9234, I	C/E/S/T	execution of a workload to randomly access a 128000 element integer array by 10 subordinate tasks with forced time-slicing. Compare to ALD9233 to see the effect of forced time-slicing. Run statistic \$1 = storage_size attribute of the subordinate task type. Run statistics 1-4 of ALI9234 contain the total, maximum, minimum, median task iteration counts.
AL DE2C1	C/E/S/T	execution of a work-load by 1 subordinate task. The work load outputs 1968 characters to a sequential file of character type. (run statistic \$1 = storage_size attribute of the subordinate task type).
ALDE2C2,I	C/E/S/T	execution of a work-load by 10 subordinate tasks. Compare to ALDEZC1 to see the effect of task scheduling overhead. The work load outputs 1968 characters to a sequential file of character type. Run statistics 1-4

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
ALDE2C3	C/E/S/T	in ALIE2C2 contain the total, maximum, minimum, and median task iteration counts. (run statistic \$1 = storage_size attribute of the subordinate task type). execution of a work-load by I subordinate task with a forced timeslice interval (VAX=.01 secs). Compare to ALDE2C1 to see the effect of forced time-slicing. The work load outputs 1968 characters to a sequential file of character type. (run statistic \$1 = storage_size
ALDE2C4,I	C/E/S/T	attribute of the subordinate task type). execution of a work-load by 10 subordinate tasks with a forced time-slice interval (VAX .01 secs). Compare to ALDE2C2 to see the effect of forced time-slicing. The work load outputs 1968 characters to a sequential file of character type. Run statistics 1-4 in ALIE2C4 contain the total, maximum, minimum, and median task iteration counts. (run statistic %1 = storage_size attribute of the subordinate task type).
ALDE2C5	C/E/S/T	execution of a work-load by 1 subordinate task. The work load inputs 1968 characters from a sequential file of character type. (run statistic \$1 = storage_size
ALDE2C6,I	C/E/S/T	attribute of the subordinate task type). execution of a work-load by 10 subordinate tasks. Compare to ALDE2C5 to see the effect of task scheduling overhead. The work load inputs 1968 characters from a sequential file of character type. Run statistics 1-4 in ALIE2C6 contain the total, maximum, minimum, and median task iteration counts. (run statistic \$1 = storage_size attribute of the subordinate task type).
ALDE2C7	C/E/S/T	execution of a work-load by 1 subordinate task with a forced timeslice interval (VAX=.01 secs). Compare to ALDE2C5 to see the effect of forced time-slicing. The work load inputs 1968 characters from a sequential file of character type. (run statistic %1 = storage_size attribute of the subordinate task type).
ALDE2C8,I	C/E/S/T	execution of a work-load by 10 subordinate tasks with a forced time-slice interval (VAX .01 secs). Compare to ALDEZC6 to see the effect of forced time-slicing. The work load inputs 1968 characters from a sequential file of character type. Run statistics 1-4 in ALIEZC8 contain the total, maximum, minimum, and median task iteration counts. (run statistic %1 = storage_size attribute of the subordinate task type).
ALDE4C1	C/E/S/T	execution of a work-load by 1 subordinate task. to ALDE4C1 to see the effect of task scheduling overhead. The work load outputs 1968 characters to a direct file of character type. (run statistic \$1 = storage_size
ALDE4C2,I	C/E/S/T	attribute of the subordinate task type). execution of a work-load by 10 subordinate tasks. Compare to ALDE4C1 to see the effect of task scheduling overhead. The work load outputs 1968 characters to a direct file of character type. Run statistics 1-4 in ALIE4C2 contain the total, maximum, minimum, and median task iteration counts. (run statistic @1 = storage_size attribute of the subordinate task type).
ALDE4C3	C/E/S/T	execution of a work-load by 1 subordinate task with a forced timeslice interval (VAX=.01 secs). Compare to ALDE4C1 to see the effect of forced time-slicing. The work load outputs 1968 characters to a direct file of character type. (run statistic 01 = storage_size attribute of the subordinate task type).
ALDE4C4,I	C/E/S/T	execution of a work-load by 10 subordinate tasks with a forced time-slice interval (VAX .01 secs). Compare to ALDE4C2 to see the effect of forced time-slicing. The work load outputs 1968 characters to a direct file of character type. Run statistics 1-4 in ALIE4C4 contain

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
		the total, maximum, minimum, and median task iteration counts. (run statistic #1 * storage_size attribute of
ALDE4C5	C/E/S/T	the subordinate task type). execution of a work-load by 1 subordinate task. The work load inputs 1968 characters from a direct file of character type. (run statistic 81 = storage_size
ALDE4C6,I	C/E/S/T	attribute of the subordinate task type). execution of a work-load by 10 subordinate tasks. Compare to ALDE4C5 to see the effect of task scheduling overhead. The work load inputs 1968 characters from a direct file of character type. Run statistics 1-4 in ALIE4C6 contain the total, maximum, minimum, and median task iteration counts. (run statistic %1 = storage_size attribute of the subordinate task type).
ALDE4C7	C/E/S/T	execution of a work-load by 1 subordinate task with a forced timeslice interval (VAX*.01 secs). Compare to ALDE4C5 to see the effect of forced time-slicing. The work load inputs 1968 characters from a direct file of character type. (run statistic \$1 = storage_size attribute of the subordinate task type).
ALDE4C8,I	C/E/S/T	execution of a work-load by 10 subordinate tasks with a forced time-slice interval (VAX .01 secs). Compare to ALDE4C6 to see the effect of forced time-slicing. The work load inputs 1968 characters from a direct file of character type. Run statistics 1-4 in ALIE4C8 contain the total, maximum, minimum, and median task iteration counts. (run statistic #1 = storage_size attribute of the subordinate task type).
A000102 A000103,C	C/E/S/T/J/F C/E/S/T/J/F	
A000107 A000108,C	C/E/S/T C/E/S/T	hend-optimized version of test ADDD108. tests constant folding/propagation optimization logic for constant aggregate expressions within/between assignment statements.
A000112 A000113,C	C/E/S/T C/E/S/T	hand-optimized version of test AODO113. tests constant folding optimization logic for constant predefined attribute expressions within assignment statements.
A000202 A000203,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000203.
A000207 A000208,C	C/E/S/T C/E/S/T	hand-optimized version of test A000208. tests constant propagation optimization logic for aggregate constant expressions within and between assignment and control structure statements by providing opportunities for removal of statements at compile-time.
A000300	C/E/S/T/J/F	tests common array address expression eptimization logic
AD00305	C/E/S/T/J/F	
A000310	C/E/S/T/J/F	
A000311 A000312,C	C/E/S/T/J/F C/E/S/T/J/F	
A000314 A000315,C	C/E/S/T/J/F C/E/S/T/J/F	expressions with integer scalar operands. hand-optimized version of test A000315.

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
TEST BOILE	AFKSTOUS	
		expressions with 1-dimensional integer array element operands.
A000317 A000318,C	C/E/S/T/F C/E/S/T/F	hand-optimized version of test ADDD318. tests common subexpression optimization logic
W000310,C	C/E/3/1/F	within/between assignment statements for arithmetic
		expressions with 2-dimensional integer array element
A000320	C/E/S/T/F	operands. hand-optimized version of test A000321.
A000321,C	C/E/S/T/F	tests common subexpression optimization logic
		within/between assignment statements for arithmetic expressions with 3-dimensional integer array element
		operands.
A000323	C/E/S/T/J/F	hand-optimized version of test A000324.
A000324,C	C/E/S/T/J/F	tests common subexpression optimization logic within and between assignment and control statements for
		arithmetic expressions with integer scalar operands.
ADD0326	C/E/S/T/J/F	hand-optimized version of test A000327.
A000327,C	C/E/S/T/J/F	tests common subexpression optimization logic across short-circuit operators in IF statements for arithmetic
		expressions involving integer scalar operands.
A000329	C/E/S/T/J/F	hand-optimized version of test A000330.
A000330,C	C/E/S/T/J/F	tests common subexpression optimization logic for common 1-dimensional array element references within a FOR
		loop with the loop iteration parameter used as index.
A000332	C/E/S/T/J/F	hand-optimized version of test A000333.
A000333,C	C/E/S/T/J/F	tests common subexpression optimization logic for common 2-dimensional array element references within a 2-level
		nested FOR loop with the loop iteration parameters used
A000335	C/E/S/T/J/F	as indices. hand-optimized version of test A000336.
AD00336.C	C/E/S/T/J/F	tests common subexpression optimization logic for common
		3-dimensional array element references within a 3-level
		nested FOR loop with the loop iteration parameters used as array indices.
A000338	C/E/S/T/J/F	hand-optimized version of test A000339.
A000339,C	C/E/S/T/J/F	tests common subexpression optimization logic within and
		between assignment and control statements for relational and logical eperators with integer scalar
		operands.
A000341 A000342.C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test ADD0342. tests common subexpression optimization logic
N000342,0		within/between assignment statements for expressions
40007//	0.5.45.47.1.45	using the mod, rem and abs operators.
ADD0344 ADD0345.C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test AODO345. tests common subexpression optimization logic
20000		within/between assignment statements for expressions
AD00348	C/E/S/T/J/F	using the math functions sin,cos,tan. hand-optimized version of test A000349.
A000349,C	C/E/S/T/J/F	tests common subexpression optimization logic between
-		assignment statements and across a call to an external
		procedure. The expressions involve local variables that are not referenced by nor passed as arguments to the
		called procedure.
A000351	C/E/S/T/J/F	hand-optimized version of test A000352.
AD00352,C	C/E/S/T/J/F	tests common subexpression eptimization logic between assignment statements and across a call to an external
		procedure. The expressions involve global variables
		that are not referenced by nor passed as arguments to
A000354	C/E/S/T/F	the called procedure. the test requires range checks for all indices of array
		element references. It is compared to test A000355.
A000355,C	C/E/S/T/F	tests array index range check optimization logic by assigning constants (within separate paths of an IF
		statement) to variables used in subsequent array
		references. No erray index range checks are necessary.

Table F-1 ACPS Test Descriptions (continued)

IEST NAME	VERSIONS	DESCRIPTION
A000357	C/E/S/T/F	If optimized, AUCO355 should be < l. the test requires range checks for all indices of array element references. It is compared to test AUCO358.
A000358,C	C/E/S/T/F	tests array index range check optimization logic by assigning positive valued variables(within an IF statement) to variables used in subsequent array references. Only lower bound array index range checks
A000360	C/E/S/T/F	are necessary. If optimized, AOCO358 should be < 1. the test requires range checks for all indices of array element references. It is compared to test AOOO361.
A000361,C	C/E/S/T/F	tests array index range check optimization logic by assigning (from within an IF statement) variables typed with ranges to variables typed without ranges which are used in subsequent array references. No array index range checks are necessary. If optimized, ADCO361 should be < 1.
A000363	C/E/S/T/J	hand-optimized version of test A000364. Tests A0C0364, A0C0367, A0C036A, A0C036D, A0C036G, A0C036J, A0C036M, A0C036P, A0C036S, A0C036V, A0C036Y all have the same structure and may be compared to one another to see whether the type of the operand used in the tests affects optimization.
A000364,C	C/E/S/T/J	tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with enumeration scalar operands.
AD00366	C/E/S/T	hand-optimized version of test A000367.
A000367,C	C/E/S/T	tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with integer - array slice operands.
A000369	C/E/S/T	hand-optimized version of test A00036A.
A00036A,C	C/E/S/T	tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with boolean - array slice operands.
AOD036C	C/E/S/T	hend-optimized version of test ADD036D.
AOD036D,C	C/E/S/T	tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with packed boolean - array slice operands.
A00036F	C/E/S/T	hand-optimized version of test A00036G.
A00036G,C	C/E/S/T	tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with record object operands(type RECORDS).
A000361 A00036J,C	C/E/S/T/J C/E/S/T/J	hand-optimized version of test ADDD36J. tests common subexpression optimization logic within and between assignment and control statements for
		relational and logical operators with operands that are access type components of record access objects(type RECORD_POINTER).
A00036L A00036M,C	C/E/S/T/J C/E/S/T/J	hand-optimized version of test ADDD36M. tests common subexpression optimization logic within and
		between assignment and control statements for relational and logical operators with operands that are integer components of record objects(type RECORDS).
	C/E/S/T/J C/E/S/T/J	hand-optimized version of test ADD036P. tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with operands that are integer components of record abjects(type
AOD036R	C/E/S/T/J	PACKED_RECORDS). hend-optimized version of test ADD036S.
ADD0365,C	C/E/S/T/J	tests common subexpression optimization logic within and

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	VERSIONS	DESCRIPTION
A00036U A00036V,C	C/E/S/T/J C/E/S/T/J	between assignment and control statements for relational and logical operators with operands that are integer components of record objects(type REP_RECORDS). hand-optimized version of test A00036V. tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with operands that are strong components of record access objects(type
ADD036Y,C	C/E/S/T/J/F C/E/S/T/J/F	RECORD_TYPE). hand-optimized version of test ADD036Y. tests common subexpression optimization logic within and between assignment and control statements for relational and logical operators with short_integer scalar operands.
AODO370 AODO371,C	C/E/S/T C/E/S/T	non-shared global variable version of test ADD0371. tests common subexpression optimization logic within/between assignment statements for arithmetic expressions with integer scalar operands. The test is executed within an Ada task and the variables in the expressions are declared as shared variables. AOC0371 compares optimization logic for non-shared variables to that for shared variables.
A000375 A000376,C	C/E/S/T C/E/S/T	hand-optimized version of test A000376. tests common subexpression optimization logic for arithmetic expressions with integer scalar operands across a call to a task entry. The variables in the expressions are not referenced by the rendezvous. The test is executed within an Ada task and the variables in the expressions are declared as global variables.
AODO380 AODO381,C	C/E/S/T C/E/S/T	hand-optimizaed version of test AODŪ381. tests common subexpression optimization logic for arithmetic expressions with integer scalar operands across a call to a task entry. The variables in the expressions are not referenced by the rendezvous. The test is executed within an Ada task and the variables in the expressions are declared as shared variables.
A000391	C/E/S/T/J/F	Compare A0C0381 to A0C0376. tests optimization logic to recognize common argument lists in external procedure calls and to eliminate any redundant code/data. The test contains 5 procedure calls with identical argument lists consisting of 10 1-dimensional integer array input/output arguments. The extent of optimization is best determined through examination of the compiled code.
A000402	C/E/S/T/J/F	hand-optimized version of test A000403.
A000403,C	C/E/S/T/J/F	tests code motion space optimization logic to conserve space by moving code common to all paths in IF statements.
A000500	C/E/S/T/J/F	tests dead assignment optimization logic by providing opportunities to eliminate assignment statements to local variables whose values are only used within the assignment statements. All statements in the test loop can be removed.
A000502		hand-optimized version of test A000503.
A000503,C	CESTIJF	tests dead assignment optimization logic by providing opportunities to eliminate assignment statements to global variables that are not used but always set in a local procedure called within the test loop.
A000507 A000508,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000508. tests dead assignment optimization logic by providing opportunities to eliminate assignment statements to global variables that are not used but always set as output parameters to a local procedure celled within the test loop.
A000512	C/E/S/T/J/F	hend-optimized version of test A000513.

Table F-1 ACPS Test Descriptions (continued)

TEST NAME	<u>VERSIONS</u>	DESCRIPTION
A000513,C	C/E/S/T/J/F	tests dead assignment optimization logic by providing opportunities to eliminate redundant assignment statements within a sequential set of assignment and control structure statements.
A000517 A000518,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000518. tests dead assignment optimization logic by providing opportunities to eliminate redundant assignment statements within a sequential set of assignment statements.
A0D0524,C		hand-optimized version of test ADD0524. tests dead assignment optimization logic by providing opportunities to eliminate assignment statements to global variables that are not used but always set in a local pragma inline procedure called within the test loop.
ADD0528,C	C/E/S/T C/E/S/T	hand-optimized version of test ADD0528. tests dead assignment optimization logic by providing opportunities to eliminate assignment statements to global variables that are not used but always set in an external pragma inline procedure called within the test loop.
A000602 A000603,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000603. tests algebraic identity recognition optimization logic by providing opportunities to simplify arithmetic and relational expressions within assignment statements.
A000605	C/E/S/T/J/F	tests target dependent operator strength reduction optimization logic for integer expressions within assignment statements(see test code for run statistic description).
A000606	C/E/S/T/J/F	tests target dependent operator strength reduction logic for multiplication/division by powers of 2(e.g. 4,8,).
A000607	C/E/S/T/J/F	tests target dependent operator strength reduction logic for exponentiation by constant exponents(e.g. 2.3.4,8).
A000702 A000703,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000703. tests optimization logic to remove loop invariant code(expression, assignment statement, control statement) from for loops.
AD00705	C/E/S/T/J/F	tests optimization logic to remove loop invariant array index calculations from FOR loops.
A000706 A000707,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000707. tests optimization logic to remove loop invariant expressions involving array references from FOR loops.
A000709 A000710,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000710. tests loop fusion optimization logic by providing an
A000713	C/E/S/T/J/F	opportunity to combine 2 loops into 1. tests target machine dependent optimization logic to use block move instructions to implement FOR loops that transfer data between 1-dimensional arrays.
A000714	C/E/S/T/J/F	tests target machine dependent eptimization logic to use block move instructions to implement FDR loops that transfer data between 2-dimensional arrays.
A000715	C/E/S/T/J/F	tests target machine dependent optimization logic to use block move instructions to implement FOR loops that transfer data between 3-dimensional arrays.
A000716	C/E/S/T/J/F	tests target machine dependent optimization logic to use block move instructions to implement FOR loops that initialize 1-dimensional arrays to a constant.
A000717	C/E/S/T/J/F	tests target machine dependent optimization logic to use block move instructions to implement FDR loops that initialize 2-dimensional arrays to a constant.
A000718	C/E/S/T/J/F	tests target machine dependent optimization logic to use block move instructions to implement FOR loops that initalize 3-dimensional arrays to a constant.
A000719 A000720,C	C/E/S/T/J/F C/E/S/T/J/F	hand-optimized version of test A000720. tests time optimization logic to unroll a 3-iteration FOR loop.

APPENDIX G TEST PROGRAMS AND SOURCE CODE FILES

Table G-1 Ada Type A Test Programs and Source Code Files

PROGRAM	SUPPORT	FILES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
AADDDOO	DURSYSX	DURDMPX	AADPOOD			
AF03519	DURSYS	DURDMPX	AF03500	AF03501	AF03502	AF03503
	AF03504	AF03509	AF03510	AF03511	AF03512	AF03513
	AF03514	AF03517	AF03518	AF0P000		
AF03550	DURSPCX	OURSYSX	OURDMPX	AFOPOOO		
AFD3551 AF03620	OURSPC* OURSYS*	OURSYS* OURDMP*	OURDMP* Af03600	AF0P000 AF03601	AF03602	AF03603
AFU36ZU	AF03604	AF03605	AF03606	AF03607	AF03608	AF03609
	AF03610	AF03611	AF03612	AF03613	AF03614	AF03615
	AF03616	AF03617	AF03618	AF03619	AFOPDOD	
AF03650	DURSYSX	OUR DMP *	AF03630	AF03631	AF03632	AF03633
	AF03634	AF03635	AF03636	AF03637	AF03638	AF03639
	AF03641	AF03642	AF03643	AF03644	AF03645	AF03646
4	AF03647	AF03648	AF03649	AFOPOOO	AF03701	AF03702
AF03704	OURSPC* AF03703	OURSYS* Afopood	DURDMPX	AF03700	WL03/01	AFU3/UZ
AF03805	OURSPC*	DURSYS	OURDMPX	AF03800	AF03801	AF03802
Mr UJBUJ	AF03803	AF03804	AFOPOOO	MI 93000	W. 0000.	M. 4500E
AF04120	OURSYS	DURDMPX	AFOPOOD			
AF04121	OURSYS	OURDMPX	AFOPODO			
AF04122	DURSYSX	OURDMPX	AF0P000			
AF04123	DURSYSX	DURDMPX	AFDPDDD			
AF04124	OURSYS*	OURDMPX	AFDPOOD			
AF04125	DURSYSX	OURDMPX	AFOP000			
AF04126 AF04127	OURSYS*	OURDMP* OURDMP*	AFOPOOO AFOPOOO			
AFD4128\$	DURSPCX	OURSYS	OURDMPX	AF0P000		
AF04129	DURSYS	OURDMPX	AFOPOOD	W. O. 000		
AFD412A	DURSPCX	OURSYS	OURDMPX	AF0P000		
AF0412B	OURSPC×	DURSYS *	DURDMPX	AFOPOOO		
AFD412C	OURSPC	OURSYSX	OURDMPX	AFOPOOO		
AFD412D	OURSPCX	DURSYSX	DURDMPX	AFOPODO		
AF04130	OURSPCX	OURSYS* OURSYS*	OURDMP* OURDMP*	AFDPDDD AFDPDDD		
AF04131 AF04132	OURSPC*	DURSYSX	DURDMPX	AFOPOOD		
AF04133	OURSPCX	DURSYS	DURDMPX	AFOPDOO		
AFD4135	OURSPCX	DURSYS*	DURDMPX	AFOPOOO		
AFD4136	DURSPCX	OURSYS *	OURDMPX	AFOPOOO		
AFD4137	DURSPCX	OURSYSX	OURDMPX	AFOPOOO		
AFD4138	DURSPCX	DURSYSX	OURDMPX	AFOPOOO AFOPOOO		
AFD4139 AFD413A	OURSPC*	OURSYS* OURSYS*	OURDMP* OURDMP*	AFOPOOD		
AFD413A	DURSPC	DURSYSX	DURDMPX	AFOPOOD		
AFD413C	DURSPCX	DURSYSX	DURDMPX	AFDPDDD		
AF0413D	DURSPCX	OURSYS	DURDMPX	AFDP000		
AFD413E	DURSPCX	DURSYSK	DURDMPX	AF0P000		
AFD413G	DURSPCK	OURSYSX	OURDMPX	AF0P000		
AF0413H	DURSPCX	OURSYS	OURDMPX	AFOP000		
AF04131	OURSPC*	OURSYS* OURSYS*	OURDMP*	AFOPOOO AFOPOOO		
AF0413J AF0413K	DURSPC	DURSYS	OURDMPX	AFOPOOD		
AF04310	DURSPC	DURSYSX	DURDMPX	AFDPOOD		
AF04311	DURSPCX	OURSYSK	OURDMPX	AFOPOOO		
AF04312	DURSPCX	OURSYS	DURDMPX	AFOPOOD		
AF04510	OURSYS *	OUR DMP *	AFOPDOD			
AF04511	DURSYSX	DUR DMP *	AFDPDDD			
AF04512	DURSYSX	OURDMPX	AFOPODO			
AF04513	DURSYS	OURDMP *	AFOPOOD			
AF04514	OURSYS*	OURDMP*	AFOPODO AFOPODO			
AF04515 AF04516	DURSYS	DURDMPX	AFOPOOO			
AF04517	DURSYS	DURDMPK	AFOPODO	•		
AF0451J	OURSYS	DURDMPX	AF04518	AF04519	AF0451A	AF0451B
	AF0451C	AF0451D	AF0451E	AF0451F	AF0451G	AF0451H
	AF04511	AF0P000				

[#] Source file supplied with USE file type only

Table G-1 Ada Type A Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	ILES(× - TE	St_Support_	SOFTHARE PA	CKAGES USED	D.
AFD451U\$	OURSYS* AFD451M	DURDMP× AFD451N	OURTYPX AFD4510	AFOPOOO AFD451P	AFD451K AFD451Q	AFD451L AFD451R
AF0451Z	AFD451S OURSYSX AFOPOOD	OURDMPX	AF0451V	AF0451H	AF0451X	AF0451Y
AF04520	DURSYSX	DURDMPX	AF0P000			
AF04521	DURSYSX	OURDMP*	AF0P000			
AF04522	OURSYS*	OURDMP ×	AF0P000			•
AFD4523	DURSYSX	DURDMP*	DURTYPX	AF0P000		
AFD4524	OURSYS*	OURDMPX	DURTYPX	AFOPOOD		
AFD4525	DURSYS*	DURDMPX	OURTYPX	AFOPOOO AFOPOOO		
AFD4526 AF04527	OURSYS* Oursys*	OURDMP* OURDMP*	OURTYP× Afopodo	AFUFUU		
AFD4528	DURSPCX	OURSYS	DURDMPX	AF8P000		
AF04529	OURSYSX	OURDMPX	AFOPOOD	W. C. C.C.		
AFD452A	DURSPC×	QURSYSX	OURDMP*	AFOPOOC		
AF04530	OURSYSX	DURDMPX	AF0P000			
AF04531	DURSYS *	DURDMP *	AF0P000			
AF04532	DURSYSX	DURDMPX	AF0P000			
AF04533	DURSYSX	OURDMPX	AFOPODO			
AF04534 AF04535	OURSYS* OURSYS*	OURDMP* OURDMP*	AFOPOOO AFOPOOO			
AF04536	DURSYSX	BURDMPX	AFOPOOD			
AF04537	OURSYSX	DURDMPX	AFOPOOD			
AF04538	OURSYS*	OURDMPX	AF0P000			
AF04539	OURSYS*	OURDMP *	AF0P000			
AF0453A	DURSYSX	OURDMPX	AFOPOOO			
AF0453B	OURSYS	OURDMPX	AFOPOOO			
AF0453C AF04540	OURSYS* OURSYS*	OURDMP*	AFOPOOO AFOPOOO			
AF04541	DURSYS	OURDMPX	AFOPOOO			
AF04550	OURSYS	DURDMPX	AFOPOOO			
AF04551	DURSYSX	OURDMPX	AF0P000			
AF04552	DURSYSX	OURDMPX	AF0P000			
AF04553	OURSYS*	DURDMPX	AFOPODO			
AF04554	OURSYS	OURDMPX	AFOPOOO			
AF04555 AF04556	OURSYS* OURSYS*	OURDMP* OURDMP*	AFOPOOO AFOPOOO			
AF04557	DURSYSX	DURDMPX	AFOPOOO			
AF04558	OURSYS	DURDMPX	AFOPOOO			
AF04559	DURSYS*	OURDMPX	AF0P000			
AFD455D	DURSYS*	DURDMP ×	OURTYPX	AFOPOOO		
AFD455E	OURSYSX	OURDMP ×	OURTYPX	AF0P000		
AFD455F	OURSYSX	OURDMPX	OURTYPX	AFOPOOO		
AFD455G AFD455I	OURSYS* OURSYS*	DURDMPX DURDMPX	OURTYP# Ourtyp#	AFOPOOO AFOPOOO		
AFD455J	DURSYSX	DURDMPX	DURTYPE	AFOPOOD		
AFD455K	DURSYS*	OURDMPX	DURTYPX	AF0P000		
AFD455L	OURSYSX	OURDMPX	OURTYP *	AFOPOOD		
AF0455N	OURSYS*	DURDMP ×	AF0P000		•	
AF04550	OURSYS*	OURDMPX	AF0P000			
AF04560 AF04562	DURSYSX	OURDMPX	AFOPODO AFOPODO		•	
AF04563	OURSYS* DURSYS*	OURDMP*	AFOPOOO			
AFD4566	DURSYSX	DURDMPX	DURTYPX	AF0P000		
AFD4567	OURSYSX	DURDMPX	DURTYPX	AFOPOOD		
AFD4568	OURSYSX	OURDMPX	DURTYPX	AF0P000		
AFD4569	OURSYSX	OURDMPX	DURTYPX	AF0P000		
AF04600	OURSYSX	OURDMPX	AF0P000			
AF04601	DURSYS* Dursys*	OURDMPX	AFOPODO			
AF04602 AFD4603	DURSYS*	OURDMP*	AFOPOOO Ourtyp*	AF0P000		
AFD4604	OURSYSX	DURDMPX	DURTYPE	AFDPOOD		
AFD4605	OURSYS	OURDMP	OURTYPE	AFOPOOD		
AFD4606	DURSYSX	OURDMPX	DURTYPX	AFOPOOD		

[#] Source file supplied with USE file type only

Table G-1 Ada Type A Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	ILES(X - TE	ST_SUPPORT	SOFTHARE PA	CKAGES USED	1
AFD4607	DURSYSX	OURDMPX	DURTYPX	AFOPODO		
AFD46D8	OURSYSX	DURDMPX	OURTYPE	AFOPOOD		
AFD4609	OURSYSX	OURDMPX	DURTYPX	AFOPDOD		
AFD460A	DURSYS *	OURDMP *	OURTYPX	AFOPOOO		
AFD460B	OURSYS*	QURDMPX	OURTYPX	AFOPOOD		
AF0460E	DURSYSX	OURDMPX	AFOPODO			
AF0460F	OURSYSX	DURDMPX	AFOPODO			
AF0460G AF0460H	DURSYSX	OURDMPX	AFOPODO			•
AF0460I	OURSYS* Oursys*	OURDMP* OURDMP*	AFOPOOD			
AF0460J	DURSPCX	OURSYSX	AFOPODO			
AFD460K	DURSPCX	OURSYSX	OURDMP* Ourdmp*	AFDPDDD		
AFD460L	OURSPCX	OURSYSK	OURDMPX	AFOPODO AFOPODO		
AF0460M	DURSPCX	OURSYSE	DURDMPX	AFOPOOD		
AFD460N	OURSPCX	OURSYSX	OURDMP	AFOPDOO		
AFD4600	DURSPC*	DURSYS*	DURDMPX	AFOPODO		
AFD4804	OURSPCX	DURSYS*	DURDMPX	AFOPOOD	AFD4800	AFD4801
4505300	AFD4802	AFD4803**				W. 24001
AF05200 AF05201	OURSYSX	DURDMPX	AFOPODO			
AF05202	OURSYS* Oursys*	DURDMPX	AFOPOOD			
AF05203	OURSYS*	OURDMPX	AFOPODO			
AF05204	DURSYSX	OURDMP* OURDMP*	AFOPOOO			
AF05205	OURSYSX	OURDMPX	AFOPOOO AFOPOOO			
AF05206	DURSYSX	DURDMPX	AFOPODO			
AF05207	DURSYS *	OURDMPX	AFOPOOD			
AF05208	OURSYS *	OURDMPX	AFOPOOD			
AF05209	OURSYS *	DURDMPX	AFOPODO			
AF0520A	OURSYSX	OURDMPX	AFOPOOD			
AF0520B	OURSYS	OURDMPX	AFOPODO			
AFD520C AFD520D	OURSYSX	DURDMPX	DURTYPX	AFOPODO		
AFD520E	OURSYS* Dursys*	DURDMPX	DURTYPX	AFDPDDD		
AFD520F	OURSYSX	OURDMP* OURDMP*	OURTYPX	AFOPOOD		
AFD520G	DURSYS	OURDMPX	OURTYP* OURTYP*	AFOPOOO AFOPOOO		
AFD520H	OURSYS	OURDMPX	OURTYPE	AFOPOOO	÷	
AFD520I	DURSYSX	OURDMPX	DURTYPE	AFOPOOD		
AFD520J	DURSYSX	OURDMPX	DURTYPE	AFOPOOD		
AF0520M	OURSPCX	DURSYS *	OURDMPX	AFOPODO		
AFD520N	OURSPCX	DURSYS*	DURDMPX	AFDPDDD		
AF05200 AFD520P	OURSPCX	DURSYSX	DURDMPX	AFOPOOD		
AFD520P	OURSPC* Ourspc*	DURSYSX	DURDMPX	AFDPDDD		
AF0520R	OURSPCX	OURSYS* Oursys*	DURDMPX	AFOPOOD		
AF0520S	OURSPCX	OURSYS*	DURDMPX Durdmpx	AFOPOOD		
AF05210	OURSYSE	OURDMPX	AFOPOOD	AFOPODO		
AF05211	DURSYS *	OURDMPX	AFOPOOD			
AF05212	DURSYS *	OURDMPX	AFOPODO			
AF05213	DURSYSX	DURDMPX	AFOPDOD			
AF05214	DURSYS*	DURDMPX	AFOPOOD			
AF05215 AFD5218	OURSYSX	DURDMP*	AF0P000			
AFD5219	DURSYSX	OURDMPX	OURTYPX	AFOPDOO		
AFD521A	DURSYS* Dursys*	OURDMP*	DURTYPX	AFOPODO		
AFD521B	OURSYS*	DURDMPX	OURTYP* Ourtyp*	AFOPOOO		
AFD521C	OURSYS*	OURDMPX	OURTYPE	AFOPODO AFOPODO		
AFD521D	DURSYSX	OURDMPX	DURTYPX	AFOPDOD		
AFD521E	OURSYSE	OURDMP*	DURTYPX	AFOPODO		
AFD521F	DURSYSX	DURDMPX	DURTYPE	AFOPODO		
AF0521H	DURSYSX	OURDMP *	AF0P000			
AF05211	DURSYSX	DURDMPX	AFDPDDD			
AF0521J AF0521K	OURSYS	DURDMPX	AF0P000			
AFD521K	OURSYS* Ourspc*	DURDMPX	AFOPOOO			
m. BJEIR	UURSPUR	DURSYSX	OURDMP	AF0P000		

Multiple versions of source file supplied(USE and ADA file types)

Table G-1 Ada Type A Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	TIFS(* - TF	ST SUPPORT	SOFTWARF PA	CKAGES USET	13
					CRADES VSE	4
AF0521L	DURSPCX	DURSYS*	OURDMPX	AFOPODO		
AFD521M	OURSPCX	DURSYSK	OURDMPX	AFOPOOO		
AF0521N AFD5210	OURSPC* OURSPC*	OURSYSX	DURDMPX	AFOPOOO		
AFD5210	OURSPCX	OURSYS* Oursys*	OURDMPX Ourdmpx	AFDP000 AFDP000		
AF05304	OURSYSX	OURDMPX	AF05300	AF05301	AF05302	AF05303
W. 0500 1	AFOPOOD	TONDIN A	MI 43300	WI 03301	MI 03302	WL02202
AF05308	DURSYSX	DURDMP *	AF05305	AF05306	AF05307	AF0P000
AF05408	DURSYSX	OURDMPX	AF05400	AF05401	AF05402	AF05403
	AF05404	AF05405	AF05406	AF05407	AFOP000	
AF05505	DURSYSX	OURDMP*	AF05501	AF05502	AF05503	AF05504
AFAFFAC	AFOPOOD	0 11 0 2110~	450000	.=	450000	
AF0550C	OURSYSX Af0550A	DURDMPX	AF05506	AF05507	AF05508	AF05509
AF0550D	DURSYSX	AF0550B Ourdmpx	AFOPOOO AFOPOOO			
AF0550E	DURSYSX	OURDMPX	AF0P000			
AF0550F	DURSYSX	DURDMPX	AFOPOOO			
AF06001	OURSYSX	DURDMPX	AFOPODO			
AF06009	OURSYS	DURDMPX	AFOPODO			
AF06010	DURSYSX	DURDMP *	AFOPODO			
AF06011	OURSYSK	OURDMPX	AFOPOOO			
AF06022	DURSYSX	DURDMPX	AF06013	AF06014	AF06015	AF06016
AF06033	AFD6017 Dursys*	AF06018 Ourdmpx	AF06019 AF06023	AFDPDDD	AE0/025	450/03/
A1 00033	AF06027	AF06028	AF06023	AF06024 AF06030	AF06025 AF06031	AF06026 AF06032
	AFOPOOO	W. 40450	MI 40027	AFOBUSU	WL00021	MF00032
AF06053	DURSYSX	DURDMP *	AF06043	AF06044	AF06045	AF06046
	AF06047	AF06048	AF06049	AF06050	AF06051	AF06052
	AFOPOOD					
AF06069	OURSYSX	DURDMPX	AF06060	AF06061	AF06062	AF06063
AF06079	AF06064 Dursys*	AF06065	AF06066	AF06067	AF06068	AFOPOOO
AFUBU/9	AF06074	OURDMPX AF06075	AF06070 AF06076	AF06071 AF06077	AF06072	AF06073
AF06101	DURSYSX	DURDMPX	AF06100	AFOPOOO	AF06078	AFGPDOD
AF06109	OURSYSX	DURDMPK	AF06108	AFOPOOD		
AF06110	DURSYSX	BURDMPX	AF06108	AFOPOOO		_
AF06111	DURSYS *	DURDMP*	AF06108	AF0P000		
AF06122	OURSYSX	DURDMP*	AF06112	AF06113	AF06114	AF06115
450/1/0	AF06116	AF06117	AF06118	AF06119	AFOPOOO	
AF06140	OURSYS* AF06136	DURDMPX	AF06132	AF06133	AF06134	AF06135
AF06150	OURSYS	AF06137 OURDMP×	AF06138 AF06142	AF06139 AF06143	AF0P000 AF06144	AF06145
W. 00130	AF06146	AF06147	AF06148	AF06149	AFOPOOO	MEDDITO
AF06160	DURSYS*	DURDMPX	AF06152	AF06153	AF06154	AF06155
	AF06156	AF06157	AF06158	AF06159	AFOPOOO	
AF06170	DURSYSX	DURDMPX	AF06162	AF06163	AF06164	AF06165
AF0/300	AF06166	AF06167	AF06168	AF06169	AFOPODO	
AF06180	OURSYS*	DURDMPX	AF06172	AF06173	AF06174	AF06175
AF06190	AF06176 Oursys*	AF06177 Durdmpx	AF06178 AF06182	AF06179 AF06183	AF0P000 AF06184	AF06185
MI 00170	AF06186	AF06187	AF06188	AF06189	AFOPODO	WLADIOS
AF06199	DURSPC×	OURSYS	DURDMPX	AF06191	AF06192	AF06193
	AF06194	AF06195	AF06196	AF06197	AF06198	AFOPOOO
AF0619I	OURSPC*.	DURSYSX	DURDMPX	AF0619A	AF0619B	AF0619C
4544555	AF0619D	AFD619E	AF0619F	AF0619G	AF0619H	AFOPOOO
AF0619R	DURSPCX	OURSYSX	OURDMPX	AF0619J	AF0619K	AF0619L
AFD6201	AF0619M Oursys*	AF0619N Ourdmp*	AF06190 AF0P000	AF0619P	AF0619Q	AF0P000
AFD6201	DURSYS	DURDMPX	AFOPOOD			
AFD6210	OURSYS	OURDMPX	AFOPOOD			
AFD6211	DURSYS	OURDMPX	AFOPO00			
AFD6222	OURSYSX	OURDMPX	AFDPOOD	AFD6213	AFD6214	AFD6215
	AFD6216	AFD6217	AFD6218	AFD6219		
AFD6233	OURSYS	OURDMP *	AFOPOOD	AFD6223	AFD6224	AFD6225
	AFD6226	AFD6227	AFD6228	AFD6229	AFD6230	AFD6231

Table G-1 Ada Type A Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	ILES(× - TE	ST SUPPORT	SOFTWARE PA	CKAGES USED)
	AFD6232					4.50.40.40
AFD6253	OURSYS* AFD6246	DURDMP* AFD6247	AFDP000 AFD6248	AFD6243 AFD6249	AFD6244 AFD6250	AFD6245 AFD6251
	AFD6252	AF D0 247	AF D0 240	APD6249	AF 06230	WLD0521
AFD6269	OURSYSX	OURDMPX	AF0P000	AFD6260	AFD6261	AFD6262
	AFD6263	AFD6264	AFD6265	AFD6266	AFD6267	AFD6268
AFD6279	DURSYS*	DURDMP *	AFOPODO	AFD6270	AFD6271	AFD6272
AED/ 103	AFD6273	AFD6274	AFD6275	AFD6276	AFD6277	AFD6278
AFD6301 AFD6309	OURSYS* OURSYS*	OURDMP* OURDMP*	AFOPOOO AFOPOOO	AFD6300 AFD6308		
AFD6310	OURSYS	OURDMPX	AFOPOOD	AFD6308		
AFD6311	DURSYS *	DUR DMP ×	AF0P000	AFD6308		
AFD6322	DURSYS*	QURDMPX	AFOPOOD	AFD6312	AFD6313	AFD6314
AFB/ 1/0	AFD6315	AFD6316	AFD6317	AFD6318	AFD6319	AFB/ 77/
AFD6340	OURSYS× AFD6335	DURDMP× AFD6336	AFOPOOO AFD6337	AFD6332 AFD6338	AFD6333 AFD6339	AFD6334
AFD6350	OURSYS	DURDMPX	AFOPODO	AFD6342	AFD6343	AFD6344
2002	AFD6345	AFD6346	AFD6347	AFD6348	AFD6349	
AFD6360	OURSYS*	DURDMPX	AFOPODO	AFD6352	AFD6353	AFD6354
455/174	AFD6355	AFD6356	AFD6357	AFD6358	AFD6359	A = D / T / /
AFD6370	OURSYS* AFD6365	OURDMP# AFD6366	AF0P000 AFD6367	AFD6362 AFD6368	AFD6363 AFD6369	AFD6364
AFD6380	OURSYSX	DURDMPX	AFDPDDD	AFD6372	AFD6373	AFD6374
A. 20300	AFD6375	AFD6 376	AFD6377	AFD6378	AFD6379	M. 20374
AFD6390	OURSYS*	DURDMPX	AF0P000	AFD6382	AFD6383	AFD6384
	AFD6385	AFD6386	AFD6387	AFD6388	AFD6389	
AF0642B	DURSPCX	DURSYS	DURDMPX	AF06422	AF06423	AF06424
	AF06425 AF0P000	AF06426	AF06427	AF06428	AF06429	AF0642A
AF06803	DURSYSX	DURDMPX	AF06802	AF0P000		
AF06807	DURSYSX	DURDMPX	AF06806	AFOPODO		
AF06809	OURSPC *	DURSYSX	OURDMPX	AF06808	AFOPOOD	
AF0680B	DURSPCX	DURSYS*	DURDMPX	AF0680A	AFOPODO	•
AF0680D	OURSPCX	DURSYS	DURDMPX	AF0680C	AFOPOOO	
AF0680F AFD680H	OURSPC× OURSPC×	DURSYS* Oursys*	OURDMP*	AF0680E AF0P000	AF0P000 <u>AFD680G</u>	
AFD680J	DURSPCX	OURSYS	OURDMPX	AFOPODO	AFD6801	
AF06811	DURSYS*	OURDMPX	AF06810	AFOPOOO		
AF06815	DURSYSX	OURDMPX	AF06814	AFOPOOO		
AF06817	DURSYSX	OURDMPX	AF06816	AFOPOOD		
AF06819 AF06821	DURSYS* Dursys*	OURDMP*	AF06818 AF06820	AFOPOOO AFOPOOO		
AF06823	OURSPCX	OURSYSX	OURDMPX	AF06822	AF0P000	
AF06825	DURSPCX	DURSYS	DURDMPX	AF06824	AFOPOOD	
AFN9301	OURSPCX	OURSYS*	AFN9300	***********		
AFN9302	OURSPCX	OURSYSX	AFN9300			
<u>AFN9303</u>	OURSPCX	DURSYSK	AFN9300	4500500	4500000	
AF09501 AF09502	OURSPC* OURSPC*	OURSYS* OURSYS*	DUR DMP× DUR DMP×	AF09500 AF09500	AFDPDDD AFDPDDD	
AF09503	DURSPCX	OURSYS	OURDMPX	AF09500	AFOPOOD	
AF09504	DURSPCX	DURSYSX	DUR DMP ×	AF09500	AFOPODO	
AF09505	OURSPC×	DURSYS *	OURDMPX	AF09500	AF0P000	
AF09506	OURSPCX	DURSYSX	DURDMPX	AF09500	AFOPOOD	
AF09507	DURSPCX	DURSYS	OURDMPX OURDMPX	AF09500 AF09500	AFOPO00	
AF09508 AF09509	OURSPC*	OURSYS* Oursys*	DURDMPX	AF09500	AFOPOOO AFOPOOO	
AFN9511	DURSPC×	DURSYSX	AFN9510	WI 41340	MI VI VVV	
AF09600	DURSPC×	OURSYS *	AFOPOOO			
AF09601	OURSPC×	DURSYSX	AFDPDDD			
AF09602	OURSPCX	DURSYSX	AFOPOOO			
AF09603	OURSPC* OURSPC*	OURSYS* OURSYS*	AFOPODO AFOPODO			
AF09604 AF09605	OURSPCX	DURSYSK	AF0P000			
AF09606	OURSPC×	DURSYSX	AFOPOOO			
AF09607	DURSPCX	DURSYS	AFOPOOO			

Table G-1 Ada Type A Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	ILES(× - T	EST SUPPORT	SOFTHARE PA	CKAGES USED)	Ļ
AFN9611	OURSPC×	DURSYSX				
AFN9612	DURSPCX	OURSYSX	AFN9610			
AFN9613	DURSPC×	OURSYS*	AFN9610			
AF09711	OURSYSX	AF09710	AFOPOOD			
AF09713	DURSYSX	AF09712	AFOPOOD	4500500	450000	
AF09720 AF09721	DURSPC* Durspc*	DURSYS* Dursys*	OURDMP* OURDMP*	AF09500 AF09500	AFOPOOO AFOPOOO	
AF09731	DURSPCX	DURSYS*	OURDMPX	AF09500	AFOPOOD	-
AF09901	OURSYS*	AF09900	AFOPODO	07500		
AF09902	DURSYS *	AF09900	AFOPODO			
AF09903	OURSYSX	AF09900	AFOPDOO			
AFM9A01 AFM9A02	OURSPC* OURSPC*	OURSYS* Oursys*	AFM9A00 AFM9A00			
AFM9A03	OURSPCX	DURSYS	AFM9A00			
AF09B01	OURSPCX	DURSYSX	DURDMPX	AF09500	AFDP000	
AFD9C00	OURSPC ×	DURSYS *	AFOPOOD	AFD9000	*** *** ***	
AFD9C01	DURSPC×	OURSYS*	AFOPOOO	AFD9000	AFD9200	
AFD9C02 AFD9C03	OURSPCX	DURSYSX	AFDPOOD	AFD9000	AFD9200	
AFD9C04	OURSPC* OURSPC*	OURSYS* OURSYS*	AFOPOOO AFOPOOO	AFD9000 AFD9000	AFD9200 AFD9200	
AFMB001	OURSYS	AFMBOOO	AI OF GOO	Al Dioo	BIDIEVO	
AFMB003	OURSYS*	AFMB002				
AFMB005	OURSYS*	AFMB004				
AFMB007	OURSYSX	AFMB006				
AFMB009 AFMB012	DURSYS* Dursys*	AFMB008 AFMB010	AFMB011			
AFMB016	OURSYSX	AFMB013	AFMB014	AFMB015		
AFMB020	DURSYS	AFMB017	AFMB018	AFMB019		
AFMB024	OURSYS	AFMB021	AFMB022	AFMB023		
AFMB028	DURSYSX	AFMB025	AFMB026	AFMB027		
AFMB032 AFMB036	OURSYS* Oursys*	AFMB013 AFMB033	AFMB014 AFMB034	AFMB015 AFMB035		
AFMB040	OURSYSE	AFMB037	AFMB038	AFMB039		
AFMB044	DURSYSX	AFMB041	AFMB042	AFMB043		
AF0C301	OURSYSX	OURDMP ×	AFOC100	AFOC101	AF0C300	AF0P000
AF0C302	OURSYSX	OURDMPX	AFDC100	AFOC101	AFOC300	AFOPOOD
AFDC304	OURSYSX	OURDMPX	AFOC102	AFOC103	AFDC303	AF0P000
AFOC305 AFOC306	OURSYS* OURSYS*	OURDMP* OURDMP*	AFOC102 AFOC102	AFOPOOO AFOPOOO.		
AFOC307	OURSYS	OURDMPX	AFOC102	AFOPOOO		
AFDC311	OURSYS*	OURDMPX	AFOPOOD	AFDC104	AFDC105	AFDC310
AFDC314	DURSYS *	OURDMPX	AFOPOOD	AFDC106	<u> AFDC107</u> \$\$	AFDC313
AFDD600	OURSPCX	DURSYS	AFOPDOO			
AFDD601 AFDD602	DURSPC* Durspc*	OURSYS* OURSYS*	AFOPOOO AFOPOOO			
AFDD603	OURSPCX	OURSYS*	AFOPOOO			
AFDD604	OURSPC×	DURSYSX	AFOPODO			
AFDD605	DURSPC*	DURSYS *	AFOPODO			
AFDD606	OURSPCX	OURSYSX	AFOPOOO			
AFDD607 AFDD608\$	OURSPC* OURSPC*	OURSYS* Oursys*	AFOPOOO AFOPOOO			
AFDD609	DURSPCX	OURSYS	AFOPOOD			
AFDD610	OURSPCX	DURSYS*	AFOPOOO			
AFDD611	OURSPC *	OURSYS*	AFOPODO			
AFOD720	OURSYSX					
AFOD721 AFDD722	OURSYS* Dursys*	DURTYPX				
AFDD723	DURSYS*	DURTYPE				
AFDD724	OURSYS	OURTYPE				
AFDD725	OURSYS	OURTYPE				
AFOD727	OURSYSX					
AFOD728	DURSPCX	DURSYS				
AFOD729	DURSPC×	DURSYSX				
		_				

^{##} Multiple versions of source file supplied(USE and ADA file types)
Source file supplied with DEC file type only
Source file supplied with USE file type only

Table G-1 Ada Type A Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LES(× - TES	T SUPPORT S	OFTHARE PAG	KAGES USED	1
AFDD72A	OURSPC×	DURSYS ×				
AFDD72B	OURSPC*	OURSYS*				
AFDD72C	DURSPCX	OURSYS*				
AFOD72D	OURSPC*	OURSYS				
AFDD72E	OURSPCX	OURSYSX				
AFDD72F AFDD72G	OURSPC* OURSPC*	OURSYS* Oursys*				
AFDD72H	OURSPC×	OURSYS				•
AFDD721	OURSPCX	OURSYS				
AFDDA01	OURSPC	DURSYSX	AF0P000			
AFDDA02	OURSPC×	OURSYS*	AFOPOOO			
AFDE220	OURSYS*	OURDMP*	AF0P000	AFDEGGG	AFDE201	AFDE202
	AFDE203	AFDE204	AFDE205	AFDE206	AFDE207	AFDE208
	AFDE209	AFDE20A	AFDE211	AFDE212	AFDE213	AFDE214
AFDE250	AFDE215 Oursys*	AFDE216 OURDMP×	AFOPOOD	AFREGGG	AFDE231	AFDE232
AF DE ZOU	AFDE233	AFDE234	AFDE235	AFDE000 AFDE236	AFDE237	AFDE238
	AFDE239	AFDE23A	AFDE241	AFDE242	AFDE243	AFDE244
	AFDE245	AFDE246	N. 35576	MI PEE 15	W. 255.73	MI 26644
AFDE420	DURSYSX	OURDMPX	AF0P000	AFDE000	AFDE401	AFDE402
	AFDE403	AFDE404	AFDE405	AFDE406	AFDE407	AFDE408
	AFDE409	AFDE40A	AFDE411	AFDE412	AFDE413	AFDE414
APDE/ E0	AFDE415	AFDE416	420000	4505000	4 - 5 - 7 - 7 - 7	4585/30
AFDE450	OURSYS* AFDE433	OURDMP× AFDE434	AFOPOOO	AFDEOOD	AFDE431	AFDE432
	AFDE433	AFDE43A	AFDE435 AFDE441	AFDE436 AFDE442	AFDE437 AFDE443	AFDE438 AFDE444
	AFDE445	AFDE446	WL DEA17	AI DETTE	ALACAAA	MIDETTT
AFDF000	DURSYSX	DURDMPX	MATHFUNX	AFOPODO		
AFDF001	DURSYS*	OURDMPX	MATHFUNX	AFOPDOO		
AFDF002	OURSYSX	OURDMP ×	MATHFUNX	AF0P000		
AFDF003	OURSYSX	OURDMPX	MATHFUNX	AF0P000		
AFDF004	DURSYSX	OURDMPX	MATHFUNX	AF0P000		
AFDF005 AGD0001	DURSYS¥ OURSYS¥	OURDMPX Mathfunx	MATHFUNX Agopood	AFOPOOO		
AGD0003	OURSYSE	AGOPOOO	AGDOOOZ	AGDOOOO		
AGD0009	DURSYSX	AGOPOOO	AGD0004	AGD0005	AGD0006	AGD0007
	AGD0008		<u> </u>			
AGDDDDC	DURSYSX	DURDMP×	AGOPODD			
AGDOODE	DURSYS*	MATHFUNX	AGOPOOD	AGDOOOO	AGDOOD	
AGNOOOK	DURSYS*	AGNOODE	AGNDODG	AGNOOOH	AGNODDI	AGNODDJ
AGD0039	OURSPC× AGD0007	DURSYS	AGDPOOD	AGD0004	AGD0005	AGD0006
AGD0049	OURSPCX	AGD0008 Dursys*	AGD0019 AG0P000	AGD0029 AGD0004	AGD0005	AGD0006
AUVVV77	AGD0007	AGD0008	AGD0019	AGD0029	HODOUS	AGDUUU
AGD0059##	DURSPCX	OURSYSK	AGOPOOO	AGD0004	AGD0005	AGD0006
	AGD0007	AGD0008	AGD0019	AGD0029		
AL09101	DURSPCX	DURSYS	AL09000	AL09100	ALOPOOD	
AL09111	OURSPCX	DURSYS*	AL 09000	AL 09100	ALDPDDD	
AL09121	OURSPCX	OURSYSX	AL09000	AL09100	AL OPOOD	
AL 09131 AL D9202	OURSPC* OURSPC*	OURSYS* Dursys*	AL09000 AL09000	AL09100 AL09100	ALOPODO Alopodo	ALD9200
AL D9203	OURSPCX	DURSYSX	AL 09000	AL09100	ALOPODO	AL 09200
AL D9204 **	DURSPCX	OURSYSK	AL 09000	AL09100	ALOPODO	AL 09200
AL D9212	OURSPC*	OURSYSX	AL09000	AL09100	ALOPOOO	AL D9200
ALD9213 ALD9214	DURSPC×	DURSYS *	AL09000	AL 09100	ALOPODO	AL 09200 AL 09200
AL D9214**	DURSPC×	OURSYS	AL 09000	AL09100	ALOPODO	AL 09200
AL D9222 AL D9223	OURSPCX	OURSYS	AL 09000	AL 09100	ALOPOOD	AL 09200 AL 09200
ALDOZZA	OURSPC* OURSPC*	OURSYS* OURSYS*	AL 09000 AL 09000	AL 09100 AL 09100	ALOPODO Alopodo	AL 09200 AL 09200
ALD9224 ** ALD9232	OURSPCX	OURSYSE	AL 09000	AL 09100	ALOPOOD	AL 09200
ALD9233	DURSPCX	DURSYSX	AL 09000	AL 09100	ALDPODD	AL 09200
AL D9234 **	DURSPCX	OURSYSE	AL 09000	AL09100	ALOPODO	AL 59200
ALDE2C1	DURSPC×	DURSYSM	ALOPODO	ALDEOOO	ALDE2B1	
ALDE2C2	DURSPC×	OURSYS	ALOPODO	ALDE000	ALDE2B1	

Source file supplied with DEC file type only

Table G-1 Ada Type A Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	LESCX - TE	ST SUPPORT	OFTHARE PAG	KAGES USED)	<u>.</u>
ALDE2C3##	DURSPC×	DURSYSX	ALDPOOD	ALDE000	ALDE281	
ALDEZC4##	DURSPCX	DURSYS *	ALOPODO	ALDEDOO	ALDEZDI ALDEZDI	
AL DE2C5	OURSPCX	DURSYS	ALOPOOO	ALDEOOO	ALDE2B2 ALDE2B2	
ALDEZCA ALDEZCZ	OURSPC* OURSPC*	OURSYS* Oursys*	ALOPODO ALOPODO	ALDEGOO	ALDE2B2	
AL DEZCE	DURSPCX	DURSYS	ALDPODO	ALDE000	ALDE2B2	
ALDE4C1	OURSPCX	OURSYS*	ALOPODO	ALDEOOD	ALDEGBI ALDEGBI	•
ALDE4C2	DURSPCX	OURSYS* Oursys*	ALOPODO Alopodo	ALDEOOO ALDEOOO	ALDE 4B1	
ALDEGCS	DURSPC* DURSPC*	DURSYSX	ALOPOOD	ALDEODO	ALDE4B1	
AL DEGCS	DURSPC×	OURSYS*	ALDPOOD	ALDE000	ALDEGES	
ALDEGC6	OURSPC×	OURSYSX	ALDPOOD Aldpood	ALDEOOO ALDEOOO	ALDE4B2 ALDE4B2	
ALDE4C7	DURSPC* DURSPC*	OURSYS* OURSYS*	ALOPODO	ALDEODO	ALDE452	
A000104	OURSYS	OURDMPX	A000002	A000102	A000103	ADOPOOD
A000109	OURSYS*	DURDMPX	A000001	A000107	A000108 A000113	ADOPOOO ADOPOOO
A000114	OURSYS* Oursys*	OURDMP*	AD00001 AD00202	A000112 A000203	ADDPOOD	7001 000
A000204 A000209	DURSYS*	BURDMPX	A000001	A000207	A000208	ADDPOOD
A000300	OURSYSX	ADDPODO				
A000305	OURSYSX	AODPOO				
ADD0310 AD00313	OURSYS* Oursys*	A00P000 Durdmp×	ADD0311	AD00312	ADOPODO	
A000316	OURSYS	OURDMP*	A000314	A000315	ADOPDOD	
A000319	DURSYSX	OURDMPX	AD00317	A000318	ADOPODO ADOPODO	
A000322	OURSYS* OURSYS*	OURDMP* OURDMP*	A000320 A000323	A000321 A000324	A00P000	
A000325 A000328	OURSYS	OURDMPX	A000326	A000327	ADDPDDD	
A000331	OURSYS	OURDMPX	A000329	A000330	ADDPOOD	
A000334	OURSYS	OURDMP* DURDMP*	A000332 A000335	A000333 A000336	ADDPDDD ADDPDDD	
A000337 A000340	OURSYS* OURSYS*	DURDMPX	A000338	A000339	ADOPOOD	
A000343	DURSYSX	OURDMP *	A000341	A000342	ADDPODD	A0D0345
AOD0346	OURSYS	OURDMPX	MATHFUNK A000347	A00P000 A000348	A0D0344 A000349	A00P000
A000350 A000353	OURSYS* OURSYS*	OURDMP* OURDMP*	AD00347	A000351	A000352	ADOPODO
A000356	OURSYS	OURDMPX	A000354	A000355	ADDPODD	
AD00359	OURSYSX	OURDMPX	A000357	A000358 A000361	A00P000 A00P000	
A000362 A000365	OURSYS* OURSPC*	OURDMP* OURSYS*	A000360 Durdmpx	AD00363	A000364	ADDPODD
A000368	OURSPC	OURSYS	OURDMPX	A000366	A000367	ADDPOOD
A00036B	OURSPC *	DURSYS	OURDMPX	ADD0369	ADDD36A ADDD36C	ADDPDDD ADDD36D
AODO36E	OURSPC* Ourspc*	OURSYS* OURSYS*	OURDMP* OURDMP*	A00P000 A00036F	A00036G	ADDPOOD
A00036H A00036K	OURSPC	OURSYSX	OURDMPX	A000361	ADDD36J	ADDPDDD
A00036N	OURSPC*	DURSYSX	OURDMPX	A00036L	A00036M ADD036D	ADDD36P
AOD036Q	OURSPCX	OURSYS* Dursys*	OURDMP* OURDMP*	ACCPCCC ACCPCCC	AODO36R	ADD0365
A0D036T A00036H	OURSPC* OURSPC*	OURSYS*	OURDMPX	A00036U	A00036V	ADDPDDD
AODO36Z	OURSYS*	DURDMP *	OURTYPX	ADDPDDD	AOD036X	A0D036Y A0D0371
A0D0373	OURSPCX	OURSYS*	OURDMPX	AODPODO	A0D0370	WADA0211
A000378	AOD0372 Oursys*	OURDMPX	ADD0374	A000375	AD00376	ADD0377
A000376	ADOPOOD		•••			
A0D0383	OURSPC *	OURSYSX	DURDMP ×	A000374	ADDPDDD	ADD0380
4000701	AODO381	AODO382 OURDMP×	A000390	ADDPDDD		
A000391 A000404	OURSYS* OURSYS*	DURDMPX	A000402	A000403	ADDPOOD	
A000500	OURSYSX	AOOPOOD			400000	
A000504	OURSYS	OURDMP*	A000502 A000507	A000503 A000508	ADOPODD ADDPDDD	
A000509	OURSYS* Dursys*	OURDMPX	A000512	A000513	ADOPOOD	
A000514 A000519	OURSYS	OURDMP *	A000517	A000518	ADDPODD	
A0D0525	DURSYS	OURDMPX	AOOPBOO	A0D0523	A0D0524	

^{##} Source file supplied with DEC file type only

Table G-1 Ada Type A Test Programs and Source Code Files (concluded)

PROGRAM	SUPPORT	FILES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
A0D0529	DURSYSX	OURDMP×	ADDPDOD	ADD0526	A0D0527	A0D0528
ADDD604	DURSYSX	DURDMP*	A000602	A000603	AOOPOOD	
AD00605	OURSYSX	DURDMP *	ADDPDDD			
A000606	OURSYSX	OURDMPX	AOOPOOO			
AD00607	DURSYS*	DURDMP ×	AOOPOOO			
A000704	DURSYS *	OURDMPX	A000702	AD00703	ADDPDDD	
A000705	OURSYS*	OURDMP ×	ADDPOOD			
ADDD708	DURSYS*	DURDMP×	A000706	AD00707	ADOPOOD	•
A000711	DURSYS*	OURDMP×	A000709	A000710	ADOPDBD	
A000713	OURSYS*	OURDMP ×	ADOPOOD			
ADD0714	DURSYS×	OURDMP *	ADOPODO			
A000715	DURSYS*	OURDMP ×	ADOPODO			
ADD0716	DURSYS*	OURDMP×	ADOPODO			
AD00717	DURSYS *	DURDMP*	ADOPOOD			
A000718	OURSYS*	OURDMPX	ADOPODO			
A000721	OURSYSX	QURDMP ≭	A000719	A000720	ADDPDDD	

Table G-2 Ada Type C Test Programs and Source Code Files

PROGRAM	SUPPORT F	ILES(× - TE	ST SUPPORT	SOFTWARE PA	CKAGES USED	2
CADDODO	OURSYS*	OURDMPX	CAOPOOO			
CF03519	OURSYSX	DURDMPX	CF03500	CF03501	CF03502	CF03503
	CF03504	CF03509	CF03510	CF03511	CF03512	CF03513
	CF03514	CF03517	CF03518	CF0P000		
CF03550	OURSPCX	OURSYSX	OURDMPX	CF0P000		
CFD3551	OURSPC	OURSYS*	DURDMPX	CF0P000	0507/02	CEATIAT
CF03620	DURSYS* CF03604	DURDMPX CF03605	CF03600 CF03606	CF03601 CF03607	CF03602 CF03608	CF03603 CF03609
	CF03610	CF03611	CF03612	CF03613	CF03614	CF03615
	CF03616	CF03617	CF03618	CF03619	CFOPOOD	0. 000.2
CF03650	OURSYSX	OURDMPX	CF03630	CF03631	CF03632	CF03633
	CF03634	CF03635	CF03636	CF03637	CF03638	CF03639
	CF03641	CF03642	CF03643	CF03644	CF03645	CF03646
CF03704	CF03647 OURSPC*	CF03648 Dursys*	CF03649 Durdmpx	CF0P000 CF03700	CF03701	CF03702
CF03/04	CF03703	CFOPOOO	OUKDMEX	CF03/00	C+03/01	CFUSIUL
CF03805	DURSPC×	DURSYSM	OURDMP *	CF03800	CF03801	CF03802
	CF03803	CF03804	CF0P000			
CF04120	DURSYS *	OURDMP *	CF0P000			
CF04121	OURSYSX	OURDMPX	CFOPOOO			
CF04122 CF04123	OURSYSX	OURDMPX	CFOPODO			
CF04123	OURSYS* Oursys*	OURDMP* OURDMP*	CF0P000 CF0P000			
CF04125	DURSYSK	OURDMPX	CFOPOOO			
CF04126	OURSYSX	OURDMPX	CFOPOOO			
CF04127	OURSYS *	DURDMPX	CFOPODO			
CFD4128\$	OURSPC ×	OURSYS*	OURDMPX	CF0P000		
CF04129	OURSYS	OURDMPX	CFOPOOO	050000		
CFD412A CF0412B	OURSPC* OURSPC*	OURSYS* Oursys*	OURDMP* OURDMP*	CF0P000 CF0P000		
CFD4125	DURSPCX	DURSYS*	OURDMPX	CF0P000		
CFD412D	OURSPC	OURSYS	DURDMPX	CFOPOOO		
CF04130	OURSPC×	DURSYSX	DURDMPX	CFOPOGO		
CF04131	OURSPC *	DURSYS *	QURDMP *	CF0P000		
CF04132	OURSPCX	OURSYSX	OURDMPX	CFOPOOD		
CF04133	OURSPCX	OURSYS*	OURDMPX	CF0P000		•
CFD4135 CFD4136	OURSPC* OURSPC*	OURSYS* OURSYS*	OURDMP× OURDMP×	CF0P000 CF0P000		
CFD4137	DURSPCX	OURSYSE	OURDMPX	CFOPOOD		
CFD4138	DURSPCX	OURSYSX	OURDMPX	CFOPOOO		
CFD4139	DURSPC×	OURSYS *	OURDMPX	CFOPOOO		
CFD413A	OURSPC×	OURSYSX	OURDMPX	CFOPOOO		
CFD413B	OURSPCX	DURSYSX	OURDMPX	CFOPOOO CFOPODO		
CFD413C CF0413D	OURSPC* Ourspc*	OURSYS* Oursys*	OURDMP* OURDMP*	CFOPOOO		
CFD413E	DURSPCX	DURSYSX	OURDMPX	CFOPOOD		
CFD413G	OURSPCX	DURSYSX	OURDMPX	CFOPODO		
CF0413H	OURSPC *	DURSYS ×	DURDMPX	CF0P000		
CF0413I	DURSPCX	OURSYSX	DURDMPX	CFOPOOD	•	
CF0413J	DURSPC×	DURSYSX	OURDMPX	CFOPODO CFOPODO	•	
CF0413K CF04310	OURSPC* OURSPC*	OURSYS* Oursys*	OURDMP*	CF0P000		
CF04311	OURSPCX	DURSYSX	DURDMPX	CFOPOOO		
CF04312	DURSPCX	DURSYSX	QURDMPX	CFOPOOO		
CF04510	OURSYSX	DURDMPX	CFOPOGO			
CF04511	OURSYS	OURDMPX	CF0P000			
CF04512	DURSYSX	OURDMPK	CFOPOOO CFOPOOO			
CF04513 CF04514	OURSYS* OURSYS*	OURDMP* OURDMP*	CFOPOOO			
CF04515	DURSYSX	OURDMPX	CFOPOOD			
CF04516	OURSYS	OURDMPX	CFOPOOO			
CF04517	DURSYSX	DURDMPX	CFOPOOO			
CF0451J	OURSYSX	DURDMPX	CF04518	CF04519	CF0451A	CF0451B
	CF0451C	CF0451D	CF0451E	CF0451F	CF0451G	CF0451H
	CF0451I	CF0P000				

[#] Source file supplied with USE file type only

Table G-2 Ada Type C Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LES(× - TES	T SUPPORT S	OFTHARE PAC	KAGES USED)	
CFD451U\$	OURSYS* CFD451M	OURDMP* CFD451N	OURTYPX CFD4510	CF0P000 CFD451P	CFD451K CFD451Q	CFD451L CFD451R
CF0451Z	CFD451S OURSYS* CFOP000	OURDMP×	CF0451V	CF0451H	CF0451X	CF0451Y
CF04520	OURSYSX	OURDMP ×	CFOPOOO			
CF04521	DURSYS *	OURDMP ×	CFOPOOO			
CF04522	DURSYS*	OURDMPX	CF0P000			•
CFD4523	DURSYS*	DURDMPX	DURTYPX	CF0P000		
CFD4524	OURSYSX	OURDMPX	OURTYPX	CF0P000		
CFD4525	OURSYSX	OURDMPX	OURTYP* OURTYP*	CFOPODO CFOPODO		
CFD4526	OURSYS* Oursys*	OURDMP* OURDMP*	CF0P000	CPUPUUU		
CF04527 CFD4528	OURSPC×	OURSYSK	DURDMPX	CF0P000		
CF04529	OURSYSX	OURDMPX	CFOPOGO	0. 0. 000		
CFD452A	DURSPCX	OURSYSX	DURDMPX	CF0P000		
CF04530	OURSYSX	OURDMPX	CF0P000			
CF04531	DURSYSX	OURDMPX	CF0P000			
CF04532	OURSYS *	OURDMP *	CF0P000			
CF04533	OURSYS *	DURDMP *	CFOPOOD			
CF04534	OURSYS*	DURDMPX	CF0P000			
@F04535	DURSYSX	DURDMPX	CFOPOOO '			
C#04536	OURSYS	OURDMPX	CF0P000			
CF04537	OURSYS* Oursys*	OURDMPX OURDMPX	CF0P000 CF0P000			
CF04538 CF04539	OURSYS	DURDMPX	CFOPDOO			
CF0453A	DURSYS	DURDMPX	CFOPOOO			
CF0453B	OURSYS	OURDMPX	CFOPOOO			
CF0453C	OURSYSX	DURDMPX	CFOPOOO			
CF04540	OURSYS	OURDMPX	CF0P000			
CF04541	DURSYSM	OURDMPX	CF0P000			
CF04550	DURSYS *	OURDMPX	CFOPODO			
CF04551	DURSYSX	OURDMP*	CF0P000			
CF04552	OURSYSX	DURDMPX	CF0P000			
CF04553	OURSYS	DURDMPX	CFOPOOO CFOPOOO			
CF04554	OURSYS* OURSYS*	OURDMP* OURDMP*	CFOP000			
CF04555 CF04556	OURSYS	DURDMPX	CFOPOOO			
CF04557	DURSYSX	DURDMPX	CFOPDOO			
CF04558	OURSYS	OURDMPX	CFOPOOO			
CF04559	OURSYS *	OURDMPX	CFOPOOD			
CFD455D	OURSYSX	OURDMPX	OURTYP *	CFOPOOD		
CFD455E	OURSY5*	OURDMPX	OURTYPX	CFOPOOO		
CFD455F	DURSYS *	DURDMPX	DURTYPX	CF0P000		
CFD455G	DURSYSX	OURDMPX	OURTYPX	CF0P000 CF0P000		
CFD4551	OURSYS	DURDMPX	OURTYP* OURTYP*	CFOPOOO		
CFD455J	OURSYS* OURSYS*	OURDMP* OURDMP*	OURTYPE	CFOPODO		
CFD455K CFD455L	OURSYSX	OURDMPX	OURTYPE	CFOPOOO		
CF0455N	OURSYS	DURDMPX	CFOPOOO	0.0.00		
CF84550	DURSYSX	DURDMPX	CFOPODO			
CF04560	DURSYS	DURDMPX	CFOPOOO			
CF04562	DURSYSX	OURDMPX	CF0P000			
CF04563	DURSYS *	DURDMPX	CFOPODO	070700		
CFD4566	OURSYSX	DURDMPX	OURTYPX	CFOPODO		
CFD4567	OURSYS	OURDMPX	DURTYPX	CF0P0D0		
CFD4568	OURSYS	OURDMPX	OURTYPE	CFOPOOO CFOPOOO		
CFD4569	OURSYSM	OURDMPX DURDMPX	OURTYPX CFOPOOO	Cruruuu		
CF04600 CF04601	OURSYS* Oursys*	OURDMPX	CF0P000			
CF04601 CF04602	OURSYS*	DURDMPX	CFOPOOD			
CFD4603	OURSYS	DURDMPX	OURTYPE	CF0P000		
CFD4604	QURSYSX	DURDMPX	OURTYPE	CFOPOOO		
CFD4605	OURSYS	OURDMPX	OURTYPE	CFOPOOO		
CFD4606	DURSYS	OURDMPX	OURTYPX	CF0P000		

[#] Source file supplied with USE file type only

Table G-2 Ada Type C Test Programs and Source Code Files (continued)

CF04607	PROGRAM	SUPPORT F	LESCX - TES	T SUPPORT	SOFTHARE PA	CKAGES USED)	
CFD4609	CFD4607			OURTYP *	CF0P000		
CFD460A							
CFD460B							
CF0460F							
CF0440F					CPUPUU		
CF0460B							
CF04601				CF0P000			•
CF04601							
CFD460K	V. V. V. V.				CEARAAA		
CF04601							
CF0460M							
CFD4600							
CFD4804							
CFD5201 OURSYSX OURDMPX CF0P000 CF05202 OURSYSX OURDMPX CF0P000 CF05203 DURSYSX OURDMPX CF0P000 CF05204 OURSYSX OURDMPX CF0P000 CF05205 DURSYSX OURDMPX CF0P000 CF05205 DURSYSX OURDMPX CF0P000 CF05206 OURSYSX OURDMPX CF0P000 CF05207 OURSYSX OURDMPX CF0P000 CF05208 OURSYSX OURDMPX CF0P000 CF05209 OURSYSX OURDMPX CF0P000 CF05209 OURSYSX OURDMPX CF0P000 CF05209 OURSYSX OURDMPX CF0P000 CF05200 OURSYSX OURDMPX CF0P000 CF05200 OURSYSX OURDMPX CF0P000 CF05200 OURSYSX OURDMPX CF0P000 CF05200 OURSYSX OURDMPX CF0P000 CFD5201 OURSYSX OURDMPX OURTYPX CF0P000 CFD5202 OURSYSX OURDMPX OURTYPX CF0P000 CFD5203 OURSYSX OURDMPX OURTYPX CF0P000 CFD5204 OURSYSX OURDMPX OURTYPX CF0P000 CFD5205 OURSYSX OURDMPX OURTYPX CF0P000 CFD5206 OURSYSX OURDMPX OURTYPX CF0P000 CFD5207 OURSYSX OURDMPX OURTYPX CF0P000 CFD5208 OURSYSX OURDMPX OURTYPX CF0P000 CFD5209 OURSYSX OURDMPX OURTYPX CF0P000 CFD5200 OURSYSX OURDMPX OURTYPX CF0P000 CFD5201 OURSYSX OURDMPX OURTYPX CF0P000 CFD5201 OURSYSX OURDMPX OURTYPX CF0P000 CFD5200 OURSYSX OURDMPX OURTYPX CF0P000 CFD5200 OURSYSX OURDMPX CF0P000 CFD5200 OURSPCX OURSYSX OURDMPX CF0P000 CFD5200 OURSPCX OURSYSX OURDMPX CF0P000 CFD5200 OURSPCX OURSYSX OURDMPX CF0P000 CFD5210 OURSYSX OURDMPX CF0P000 CFD5211 OURSYSX OURDMPX CF0P000 CFD5212 OURSYSX OURDMPX CF0P000 CFD5213 OURSYSX OURDMPX CF0P000 CFD5214 OURSYSX OURDMPX CF0P000 CFD5215 OURSYSX OURDMPX CF0P000 CFD5216 OURSYSX OURDMPX CF0P000 CFD5217 OURSYSX OURDMPX CF0P000 CFD5218 OURSYSX OURDMPX CF0P000 CFD5219 OURSYSX OURDMPX CF0P000 CFD5210 OURSYSX OURDMPX CF0P000 CFD5211 OURSYSX OURDMPX CF0P000 CFD5212 OURSYSX OURDMPX CF0P000 CFD5213 OURSYSX OURDMPX CF0P000 CFD5214 OURSYSX OURDMPX OURTYPX CF0P000 CFD5215 OURSYSX OURDMPX OURTYPX CF0P000 CFD5216 OURSYSX OURDMPX OURTYPX CF0P000 CFD5217 OURSYSX OURDMPX OURTYPX CF0P000 CFD5218 OURSYSX OURDMPX OURTYPX CF0P000 CFD5219 OURSYSX OURDMPX OURTYPX CF0P000 CFD5211 OURSYSX OURDMPX CF0P000 CFD5211 OURSYSX OURDMP						0004000	055/001
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CF05206	CF05204						
CF05207							
CF05208							
CF0520A	CF05208			CFOPOOO			
CF0520B OURSYSX OURDMPX CF0P000 CFD520C OURSYSX OURDMPX OURTYPX CF0P000 CFD520E OURSYSX OURDMPX OURTYPX CF0P000 CFD520F OURSYSX OURDMPX OURTYPX CF0P000 CFD520G OURSYSX OURDMPX OURTYPX CF0P000 CFD520H OURSYSX OURDMPX OURTYPX CF0P000 CFD520I OURSYSX OURDMPX OURTYPX CF0P000 CFD520J OURSYSX OURDMPX OURTYPX CF0P000 CF0520M OURSPCX OURSYSX OURDMPX CF0P000 CF0520M OURSPCX OURSYSX OURDMPX CF0P000 CF0520Q OURSPCX OURSYSX OURDMPX CF0P000 CF0520Q OURSPCX OURSYSX OURDMPX CF0P000 CF0521Q OURSPCX OURSYSX OURDMPX CF0P000 CF0521Q OURSYSX OURDMPX CF0P000 CF05211 OURSYSX OURDMPX							
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CF0521I OURSYS* OURDMP* CF0P000 CF0521J OURSYS* OURDMP* CF0P000 CF0521K OURSYS* OURDMP* CF0P000					CFOPODO		
ČFO5ŽÍJ OÚRSYSK OURDMPK ČFOPODO CFO5ŽÍK OURSYSK OURDMPK CFOPODO							
CF0521K OURSYS* OURDMP* CF0P000							
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	CFD521K				CFDPD00		

Multiple versions of source file supplied(USE and ADA file types)

Table G-2 Ada Type C Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	ILES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
CF0521L	DURSPCX	DURSYSX	DURDMPX	CF0P000		
CFD521M	OURSPCX	DURSYSX	DURDMPX	CFOPOOO		
CF0521N	OURSPC*	DURSYS	DURDMP	CFOPDOD		
CFD5210	OURSPCX	OURSYS	OURDMPX	CFOPODO		
	OURSPCX	OURSYS	OURDMPX	CFDPDDO		
CFD521P		OUR DMP*		CF05301	CF05302	CF05303
CF05304	OURSYSK	QUKUMP=	CF05300	CL63301	C10330E	DI 43343
	CFOPOOO				CEAE 147	CFQP000
CF05308	OURSYSX	DURDMPX	CF05305	CF05306	CF05307	
CF05408	OURSYS*	OURDMPX	CF05400	CF05401	CF05402	CF05403
	CF05404	CF05405	CF05406	CF05407	CFOPODO	
CF05505	DURSYS*	OURDMP ×	CF05501	CF05502	CF05503	CF05504
	CFOPOOO					
CFD550C	DURSYS *	OUR DMP ×	CF05506	CF05507	CF05508	CF05509
	CF0550A	CF0550B	CFOPDOO			
CF0550D	DURSYS*	DURDMPX	CFOPOOO			
CF0550E	DURSYSX	DURDMPX	CFOPODO			
CF0550F	DURSYSX	DURDMPX	CFOPOOO			
CF06001	OURSYS*	DURDMPX	CFOPODO			
CF06009	BURSYSX	DURDMPX	CFOPDOD			
CF06010	OURSYSE	DURDMPX	CFOPODO			
CF06011	DURSYS*	DURDMPX	CFOPOOO			
	~ · · · · · ·	DURDMPX	CF06013	CF06014	CF06015	CF06016
CF06022	OURSYS		CF06013	CFOPDOD	C. 00013	0.00010
	CF06017	CF06018		* L * '. T 1 1	CF06025	CF06026
CF06033	OURSYSX	DURDMPX	CF06023	CF06024		CF06032
	CF06027	CF06028	CF06029	CF06030	CFD6031	Crubusz
	CFOPOOO			-	050/0/5	650/0//
CF06053	OURSYSX	OURDMPX	CF06043	CF06044	CF06045	CF06046
	CF06047	CF06048	CF06049	CF06050	CF06051	CF06032
	CF0P000					
CF06069	DURSYS ×	OURDMP *	CF06060	CF06061	CF06062	CF06063
	CF06064	CF06065	CF06066	CF06067	CF06068	CFOPODO
CF06079	OURSYS *	DURDMPX	CF06070	CF06071	CF06072	CF06073
	CF06074	CF06075	CF06076	CF06077	CF06078	CFOPOOD
CF06101	DURSYS*	OURDMPX	CF06100	CFOPODO		
CF06109	DURSYS*	DURDMPX	CF06108	CFOPOOS		
CF06110	DURSYS*	DURDMPX	CF06108	CFOPOOO		-
CF06111	GURSYS *	DURDMPX	CF06108	CFDPOOD		
CF06122	DURSYS	DURDMPX	CF06112	CF06113	CF06114	CF06115
CLAGITE	CF06116	CF06117	CF06118	CF06119	CFOPOOO	3. 33333
CF86140	OURSYS	DURDMP×	CF06132	CF06133	CF06134	CF06135
CLAGIAN	CF06136	CF06137	CF06138	CF06139	CFOPOOO	0.00105
000/150		DURDMPX	CF06135	CF06143	CF06144	CF06145
CF06150	OURSYS	CF06147	CF06148	CF06149	CFOPOOO	0100243
	CF06146			CF06153	CF06154	CF06155
CF06160	OURSYSX	DURDMPX	CF06152			CLABISS
	CF06156	CF06157	CF06158	CF06159	CFOPOOD	CF06165
CF06170	OURSYSK	DURDMPX	CF06162	CF06163	CF06164	CLASTAR
	CF06166	CF06167	CF06168	CF06169	CFOPOOO	CPA/175
CF06180	OURSYS	DURDMPX	CF06172	CF06173	CF06174	CF06175
	CF06176	CF06177	CF06178	CF06179	CFOPDOO	
CF06190	DURSYSX	QURDMP *	CF06182	CF06183	CF06184	CF06185
	CF06186	CF06187	CF06188	CF06189	CFOPOOD	
CF06199	DURSPC*	DURSYS*	QURDMPX	CF06191	CF06192	CF06193
0.000-	CF06194	CF06195	CF06196	CF06197	CF06198	CF0P000
CFD6191	DURSPCX	DURSYS*	DURDMPX	CF0619A	CF0619B	CF0619C
0.000.0	CF0619D	CF0619E	CF0619F	CF0619G	CF0619H	CFOPOOD
CF0619R	DURSPCX	DURSYSX	OURDMPX	CF0619J	CF0619K	CF0619L
~! AAT 14	CF0619M	CF0619N	CF06190	CF0619P	CF0619Q	CFOPOGO
CFD6201	OURSYS	DURDMPX	CFOPOOD			
		DURDMPX	CFOPDOO			
CFD6209	OURSYS		CFOPDOD			
CFD6210	OURSYS	DURDMPX				
CFD6211	OURSYSK	DURDMPX	CFOPDOD	0FB/017	APR/ 91/	CED/315
CFD6222	OURSYSX	OURDMPX	CFOPOOD	CFD6213	CFD6214	CFD6215
	CFD6216	CFD6217	CFD6218	CFD6219	685 4554	APR:
CFD6233	DURSYS *	OURDMPX	CFOPOOD	CFD6223	CFD6224	CFD6225
	CFD6226	CFD6227	CFD6228	CFD6229	CFD6230	CFD6231

Table G-2 Ada Type C Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	LESCH - TE	ST SUPPORT	SOFTWARE PA	CKAGES USED	2
CFD6253	CFD6232 OURSYS*	OURDMPX	CFOPOOO	CFD6243	CFD6244 CFD6250	CFD6245 CFD6251
	CFD6246 CFD6252	CFD6247	CFD6248	CFD6249	• • • • • • • • • • • • • • • • • • • •	
CFD6269	OURSYS* CFD6263	OURDMPX CFD6264	CF0P000 CFD6265	CFD6260 CFD6266	CFD6261 CFD6267	CFD6262 CFD6268
CFD6279	OURSYSX	OURDMP ×	CFOPDOD	CFD6270	CFD6271	CFD6272
CFD6301	CFD6273 Oursys*	CFD6274 DURDMP#	CFD6275 CFOPODO	CFD6276 CFD6300	CFD6277	CFD6278
CFD6309	OURSYS*	OURDMP#	CFOPOOO	CFD6308		
CFD6310 CFD6311	OURSYS* OURSYS*	OURDMP*	CFOPODO CFOPODO	CFD6308 CFD6308		
CFD6311	OURSYSX	OURDMPX	CFOPOOO	CFD6312	CFD6313	CFD6314
000404	CFD6315	CFD6316	CFD6317	CFD6318	CFD6319	
CFD6340	OURSYS* CFD6335	DURDMPX CFD6336	CF0P000 CFD6337	CFD6332 CFD6338	CFD6333 CFD6339	CFD6334
CFD6350	OURSYSX	OURDMPX	CFOPDOO	CFD6342	CFD6343	CFD6344
CFD/ 7/0	CFD6345	CFD6346	CFD6347	CFD6348	CFD6349	050/35/
CFD6 36 0	OURSYS* CFD6355	OURDMPX CFD6356	CFOPOOO CFD6357	CFD6352 CFD6358	CFD6353 CFD6359	CFD6354
CFD6370	OURSYS*	OURDMPX	CFOPOOO	CFD6362	CFD6363	CFD6364
CFD6380	CFD6365 OURSYS*	CFD6366 Qurdmp*	CFD6367 CFOP000	CFD6368 CFD6372	CFD6369 CFD6373	CFD6374
CPD0360	CFD6375	CFD6376	CFD6377	CFD6372	CFD6373	CPDG3/4
CFD6390	OURSYSX	DURDMPX	CFOPOOD	CFD6382	CFD6383	CFD6384
CF0642B	CFD6385 OURSPCX	CFD6386 Oursys*	CFD6387 Ourdmpx	CFD6388 CFD6422	CFD6389 CFD6423	CF06424
0.00425	CF06425	CF06426	CF06427	CF06428	CF06429	CFD642A
CER/ 0.1	CFOPOOO	OURDMPX	CEA/ 503	CEARAAA		
CF06803 CF06807	OURSYS* OURSYS*	OURDMPX	CF06802 CF06806	CFOPOOO CFOPOOO		
CF06809	OURSPC ×	OURSYSX	OURDMPX	CF06808	CFOPODD	
CF0680B CF0680D	OURSPC* OURSPC*	OURSYS* OURSYS*	OUR DMPX OUR DMPX	CF0680A CF0680C	CFOPOOO CFOPOOO	
CF0680F	OURSPCX	OURSYS	OURDMPX	CF0680E	CFOPOOO	
CFD680H	DURSPCX	OURSYSX	OURDMPX	CFOPOOO	CFD680G	•
CFD680J CFD6811	OURSPC* OURSYS*	OURSYS* OURDMP*	OURDMP* CFD6810	CF0P000 CF0P000	CFD68D1	
CF06815	QURSYS *	OURDMP	CF06814	CFOPOOO		
CF06817	OURSYSX	OURDMP#	CF06816	CFOPODO		
CF06819 CF06821	OURSYS* OURSYS*	DURDMPX DURDMPX	CF06818 CF06820	CFOPOOO CFOPOOO		
CF06823	DURSPCX	DURSYSX	DURDMPX	CF06822	CFOPOGO	
CF06825 CFN9301	OURSPC* OURSPC*	DURSYS* OURSYS*	OURDMPX CFN930D	CF06824	CF0P000	
CFN9302	DURSPCX	DURSYS	CEN9300			
CFN9303	OURSPC ×	OURSYS#	<u>CFN9300</u>		000000	
CF09501 CF09502	OURSPC* OURSPC*	OURSYS# OURSYS#	DURDMPX OURDMPX	CF09500 CF09500	CFOPOOO CFOPOOO	
CF09503	OURSPC	OURSYS	OURDMPX	CF09500	CFOPOOD .	
CF09504	OURSPCX	DURSYS	OURDMP*	CF09500 CF09500	CFOPODO	
CF09505 CF09506	OURSPC*	OURSYS* OURSYS*	OURDMPX	CF09500	CF0P000 CF0P000	
CF09507	OURSPC×	DURSYSM	OURDMPX	CF09500	CFOPODO	
CF09508 CF09509	OURSPC* OURSPC*	OURSYS* Oursys*	OURDMP* OURDMP*	CF09500 CF09500	CFOPOOO CFOPOOO	
CFN9511	OURSPC	OURSYS	CFN9510 CF0P000	J. 7770		
CF09600	OURSPC	DURSYS*				
CF09601 CF09602	OURSPC* Ourspc*	OURSYS* OURSYS*	CFOPOOO CFOPOOO			
CF09603	DURSPCX	DURSYSX	CFOPDOD			
CF09604	OURSPC* OURSPC*	OURSYS* OURSYS*	CFOPOOO CFOPOOO			
CF09605 CF09606	OURSPCX	OURSYS*	CFDPDDD			
CF09607	DURSPCX	DURSYS	CFOPOOO			

Table G-2 Ada Type C Test Programs and Source Code Files (continued)

PPACRAM	CHEDDET E	NESTE - TE	ST SUPPORT S	SOFTHARE PAG	KAGES USED)	
PROGRAM			21 201 1 211 1			
CFN9611	OURSPC* OURSPC*	OURSYS* OURSYS*	CFN9610			
CFN9612 CFN9613	DURSPCX	OURSYS	<u>ČFN9610</u>			
CF09711	DURSYSX	CF09710	CFOPOOO			
CF09713	DURSYS*	CF09712	CF0P000	CF09500	CF0P000	
CF09720	OURSPCX	OURSYS* OURSYS*	OURDMP* OURDMP*	CF09500	CF0P000	
CF09721 CF09731	DURSPC* Durspc*	OURSYSX	OURDMPX	CF09500	CF0P000	•
CF09901	DURSYSX	CF09900	CF0P000			
CF09902	DURSYSX	CF09900	CF0P000			
CF09903	OURSYS* OURSPC*	CF09900 Dursys*	CFOPDOO CFM9ADD			
CFM9A01 CFM9A02	DURSPCX	DURSYSX	CFM9A00			
CFM9A03	DURSPCX	OURSYS	CFM9ADD		050000	
CF09B01	DURSPCX	OURSYSX	DURDMPX	CF09500 CFD9000	CFOPOOO	
CFD9C00 CFD9C01	OURSPC* OURSPC*	OURSYS* OURSYS*	CF0P000 CF0P000	CFD9000	CFD9200	
CFD9C02	DURSPCX	DURSYS	CFOPOOD	CFD9000	CFD9200	
CFD9C03##	DURSPC×	OURSYSX	CF0P000	CFD9000	CFD9200 CFD9200	
CFD9C04**	OURSPCX	OURSYSX	CFOPOOO	CFD9000	CFD7ZUU	
CFMB001 CFMB003	OURSYS* Oursys*	CFMB000 CFMB002				
CFMB005	OURSYS	CFMB004				
CFMB012	DURSYSX	CFMB010	CFMB011	CFMB015		
CFMB016	OURSYS*	CFMB013 CFMB017	CFMB014 CFMB018	CFMB019		
CFMB020 CFMB032	DURSYSX	CFMB013	CFMB014	CFMB015		
CFMB036	OURSYS *	CFMB033	CFMB034	CFMB035		
CFMB044	OURSYSX	CFMB041	CFMB042 CF0C100	CFMB043 CF0C101	CF0C300	CF0P000
CF0C301 CF0C302	OURSYS* Oursys*	OURDMP* OURDMP*	CF0C100	CF0C101	CF0C300	CF0P000
CF0C302	DURSYSX	OURDMPX	CF0C102	CFOC103	CF0C303	CF0P000
CF0C305	DURSYSX	OURDMPX	CFOC102	CF0P000		
CF0C306	OURSYS	OURDMP* OURDMP*	CFOC102 CFOC102	CFOPOOO CFOPOOO		
CFOC307 CFDC311	DURSYS* Dursys*	DURDMPX	CFOPOOO	CFDC104	CFDC105	CFDC310
CFDC314	DURSYS	OURDMPX	CF0P000	CFDC106	<u> </u>	CFDC313
CFDD600	OURSPC×	OURSYS	CFOPODO CFOPODO			
CFDD601 CFDD602	OURSPC* OURSPC*	OURSYS* OURSYS*	CF0P000			
CFDD602	DURSPCX	DURSYSX	CF0P000			
CFDD604	OURSPCX	OURSYSX	CF0P000			
CFDD605	DURSPCX	OURSYS	CFOPOOO CFOPOOO			
CFDD606 CFDD607	OURSPC* OURSPC*	OURSYS* OURSYS*	CFOPODO	•		
CFDD608	OURSPC	OURSYSX	CF0P000			
CFDD609	OURSPCX	DURSYSX	CFOPOOO CFOPOOO			
CFDD610	OURSPC* OURSPC*	OURSYS* OURSYS*	CF0P000		•	
CFDD611 CFDDA01	OURSPCX	DURSYS	CF0P000			
CFDDA02	DURSPCX	DURSYSX	CF0P000	0505000	CFDE201	CFDE202
CFDE220	OURSYSX	OURDMPX	CFOPOOO CFDE205	CFDE000 CFDE206	CFDE207	CFDE208
	CFDE203 CFDE209	CFDE204 CFDE20A	CFDE211	CFDE212	CFDE213	CFDE214
	CFDE215	CFDE216				
CFDE250	DURSYSX	OURDMPX	CF0P000	CFDE000	CFDE231 CFDE237	CFDE232 CFDE238
	CFDE233	CFDE234	CFDE235 CFDE241	CFDE236 CFDE242	CFDE243	CFDE244
	CFDE239 CFDE245	CFDE23A CFDE246	CLNEC41	VI #6676	W. W. L. T.	•
CFDE420	OURSYS	DURDMP	CFOPOOO	CFDE000	CFDE401	CFDE402
	CFDE403	CFDE404	CFDE405	CFDE406	CFDE407 CFDE413	CFDE408 CFDE414
	CFDE409	CFDE40A CFDE416	CFDE411	CFDE412	CLNCATO	CF DE717
	CFDE415	CLNE419				

^{##} Multiple versions of source file supplied(USE end ADA file types)
Source file supplied with DEC file type only
Source file supplied with USE file type only

Table G-2 Ada Type C Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LESCH - TES	T SUPPORT	OFTWARE PA	CKAGES USED	2
			CFOPOOO	CFDE000	CFDE431	CFDE432
CFDE450	OURSYS* CFDE433	OURDMPX CFDE434	CFDE435	CFDE436	CFDE437	CFDE438
	CFDE439	CFDE43A	CFDE441	CFDE442	CFDE443	CFDE444
	CFDE445	CFDE446	0.00			
CFDF000	DURSYSX	DURDMPX	MATHFUNX	CF0P000		
CFDF001	DURSYS*	DURDMPX	MATHFUNX	CFOPODO		
CFDF002	OURSYSX	DURDMPX	MATHFUNX	CF0P000		
CFDF003	OURSYSX	OURDMP* OURDMP*	MATHFUNX Mathfunx	CFOPOOO CFOPOOO		•
CFDF004 CFDF005	DURSYS* DURSYS*	DURDMPX	MATHFUNX	CFOPOOO		
CGD0001	OURSYS	MATHFUNX	CGOPOOO	CGD0000		
CGD0003	OURSYS*	CG0P000	CGD0002			
CGD0009	OURSYS*	CGOPOOO	CGD0004	CGD0005	CGD0006	CGD0007
	CGD0008	A1155M5V	CCODODO			
CG0000C	DURSYSX	DURDMP* Mathfun*	CGOPOOD CGOPOOO	CGD0000	CGDOOOD	
CGD000E CGN000K	OURSYS* Oursys*	CGNOODE	CGNDDOG	CGNOODH	CGNOOOI	CGNDODJ
CGD0039	DURSPCX	DURSYSX	CGOPOOO	CGD0004	CGD0005	CGD0006
<u> </u>	CGD0007	CGD0008	CGD0019	CGD0029		000000
CGD0049	DURSPC *	OURSYSX	CGOPOOO	CGD0004	CGD0005	CGD0006
	CGD0007	CGD0008	CGD0019 CG0P000	CGD0029 CGD0004	CGD0005	CGD0006
CGD0059##	OURSPC* CGD0007	OURSYS* CGD0008	CGD0019	C GD0029	CODUCT	000000
CL09101	DURSPC×	DURSYSX	CL 09000	CL09100	CLOPOOO	
CL09111	DURSPCX	DURSYS*	CL09000	CL09100	CLOPOOO	
CL 09121	DURSPCX	DURSYSX	CL09000	CL09100	CLOPODO	
CL09131	DURSPCX	OURSYSX	CL 09000	CL09100	CLOPODO CLOPODO	CLD9200
CL D9202	OURSPC	OURSYS* DURSYS*	CL09000 CL09000	CL09100 CL09100	CLOPOOO	CL 09200
CL D9 203	OURSPC* DURSPC*	DURSYS	CL 09000	CL09100	CLOPOOO	CL D9200
CL D9204** CL D9212	OURSPC	OURSYS	CL 09000	CL09100	CLOPODO	CL D9200
CL D9213	OURSPC*	OURSYS*	CL 09000	CL09100	CLOPOOO	CL D9200
CL D9214**	DURSPC#	DURSYSX	CT 0 9 D D D	CL 09100	CL DP000 CL DP000	CL 09200 CL 09200
CL 09222	DURSPC	DURSYS* DURSYS*	CL 09000	CL09100 CL09100	CLOPOOD	CL 09200
CL D9223 CL D9224	OURSPC* OURSPC*	DURSYS*	CL 09000	CL09100	CLOPODO	CLD9200
CL D9232	DURSPCX	DURSYSX	CL09000	CL09100	CLOPOOO	CL 09200
CL D9233	OURSPC*	OURSYSX	CL 09000	CF03100	CL OPOOO	CL 09200 CL 09200
CL D9234	OURSPCX	OURSYSX	CL 09000	CL09100 CLDE000	CLOPODO CLDE2B1	CLUYEVU
CL DE2C1	OURSPC*	OURSYS* OURSYS*	CLOPOOO CLOPOOO	CLDEOOO	CLDE2B1	
CLDE2C2 CLDE2C3	DURSPC* Durspc*	DURSYS	CLOPOOO	CLDEOOO	CLDE2B1	
CL DE 2C4	DURSPCX	OURSYS*	CLOPODO	CLDEOOO	CLDE2B1	
CL DE 2C5	DURSPC*	DURSYS*	CLOPODO	CLDEOOO	CLDE2B2	
CL DE 2C6	DURSPCK	DURSYSX	CLOPOOO	CLDE000	CLDE2B2 CLDE2B2	
CLDE2C7	DURSPC* Durspc*	DURSYS* DURSYS*	CLOPOOO CLOPOOO	CLDEGGG	CL DE 2B2	
CLDE2C8	DURSPCX	DURSYSX	CLOPOOD	CLDEOOO	CLDE4B1	
CLDE4C2	OURSPCK	OURSYS*	CLOPOOO	CLDEOOD	CL DE 4B1	
CLDE4C3##	DURSPCX	OURSYS*	CLOPOOO	CLDEOOO	CL DE 4 B1	
CLDE4C4##	DURSPCX	DURSYSX	CLOPODO CLOPODO	CL DE000	CLDE4B1 CLDE4B2	
CL DE4C5	DURSPC* DURSPC*	OURSYS* Dursys*	CLOPOOO	CLDEOOO	CLDE4B2	
CLDE4C6 CLDE4C7	DURSPCX	OURSYS	CLOPOOD	CLDEOOO	CLDE4B2 CLDE4B2	
CL DE4C8	DURSPC	OURSYSX	CLOPOOO	CLDEOOD	CLDE4B2	
C000104	DURSYSX	DURDMPX	C000002	C000102	C000103	C00P000 C00P000
C000109	OURSYS	OURDMPX	C000001	C000107 C000112	C000108 C000113	CODPODO
C000114	OURSYS	OURDMP* OURDMP*	C000001 C000202	C000203	COOPOOO	• • • • • • • • • • • • • • • • • • • •
C000204	OURSYS* Oursys*	DURDMPX	CD00207	C000207	C000208	COOPODO
C000209 C000300	DURSYSK	COOPOOO				
C000305	DURSYS	COOPOOO				
C000310	OURSYSM	COOPOOD		0000713	COOPOOO	
C000313	OURSYS*	DURDMPX	C000311	C000312	COUPOU	

** Source file supplied with DEC file type only

Table G-2 Ada Type C Test Programs and Source Code Files (concluded)

PROGRAM	SUPPORT F	ILES(X - TE	St support :	SOFTHARE PA	CKAGES USED	2
C000316	DURSYSX	DURDMPX	C000314	C000315	COOPOOO	
C000319	DURSYSX	DURDMPX	C000317	C000318	COOPOOO	
C000322	DURSYSX	OURDMPX	C000320	C000321	COOPOOO	
C000325	OURSYSX	OURDMPX	C000323	C000324	CDDPOOD	
C000328	DURSYSX	OURDMP *	C000326	C000327	COOPOOO	
C000331	OURSYSX	OURDMPX	C000329	C000330	COOPOOO	
CD00334	OURSYS*	DURDMP *	C000332	C000333	COOPDOO	
C000337	DURSYS *	DURDMP *	C000335	C000336	COOPOOO	•
C000340	OURSYSX	OURDMPX	C000338	C000339	COOPOOD	
C000343	OURSYSX	OURDMPX	C000341	C000342	COOPOOO	C000745
COD0346	DURSYS	OURDMPX	MATHFUNX	COOPOOO	COD0344 CO00349	CODO345 COOPOOO
C000350	OURSYS	OURDMPX	C000347	C000348 C000351	C000352	COOPOOD
CD00353	OURSYS* Oursys*	OURDMP*	C000347 C000354	C000355	COOPOOO	C00: 000
C000356 C000359	DURSYSX	DURDMPX	C000357	C000358	COOPOOO	
C000362	OURSYS	OURDMPX	C000360	C000361	COOPOOO	
C000365	DURSPCX	DURSYSX	DURDMP*	C000363	C000364	COOPOOO
C000368	DURSPCX	DURSYS*	OURDMPX	C000366	C000367	COOPOOO
C00036B	DURSPCX	DURSYS*	OURDMPX	CD00369	CDDD36A	COOPOOO
COD036E	OURSPCX	DURS (SX	OURDMP×	COOPOOO	COD036C	COD036D
C00036H	OURSPCX	OUKSYSX	OURDMPX	C00036F	C00036G	COOPOOD
C00036K	OURSPCX	DURSYSX	OURDMPX	C00036I	C00036J	COOPOOO
C00036N	OURSPCX	OURSYS*	OURDMP×	C00036L	C00036M	COOPOOO
COD0369	OURSPC×	OURSYS*	DURDMP ×	COOPOOO	COD0360	COD036P
COD036T	DURSPCX	DURSYS *	OURDMPX	COOPOOO	COD036R	COD0365
C00036H	DURSPCX	OURSYS	OURDMPX	C00036U	C00036V	COOPOOD
COD036Z	DURSYS *	DURDMPX	OURTYPX	COOPOOO	COD036X	COD036Y COD0371
COD0373	DURSPCX	OURSYS*	DURDMP×	COOPOOO	COD0370	CODOS/I
0000774	CDD0372	GUDDMOY	C000374	C000375	C000376	C000377
C000378	DURSYSX	DURDMPX	C0003/4	C0003/3	C0003/6	
COD0383	COOPOOO Durspc×	DURSYS*	OURDMPX	C000374	COOPOOO	CDD0380
C000303	COD0381	COD0382	DUNDIN A	0000074	000. 000	
C000391	DURSYSX	OURDMPX	C000390	CDDPDDD		
C000404	DURSYSX	OURDMPX	C000402	C000403	COOPOOD	
C000500	OURSYSX	COOPOOO				
C000504	DURSYS*	OURDMPX	C000502	C000503	COOPOOO	
C000509	DURSYSX	OURDMP *	C000507	C000508	COOPOOO	
C000514	DURSYS *	OURDMP *	C000512	C000513	COOPOOO	
C000519	OURSYS*	OURDMP*	C000517	C000518	COOPOOO	
COD0525	DURSYSX	OURDMPX	COOPOOO	COD0523	COD0524	CORATA
COD0529	OURSYSX	OURDMPX	COOPOOO	COD0526	COD0527	COD0528
C000604	OURSYSX	OURDMPX	C000602	C000603	COOPOOO	
C000605	OURSYSX	OUR DMP*	COOPOOO			
C000606	DURSYSX	OURDMPX	C00P000 C00P000		•	
C000607	OURSYSX	OURDMP* OURDMP*	C00700	C000703	CDDPOOO	
C000704	OURSYS* OURSYS*	OURDMPX	COOPOOO	C000/03	0001 000	
C000705 C000708	DURSYS*	DURDMPX	C001706	CD00707	COOPOOD	
C000711	DURSYS	DURDMPX	C000709	C000710	COOPOOD	
C000713	OURSYS	DURDMPX	COOPDOO			
C000714	OURSYS	DURDMPX	COOPOOD			
C000715	OURSYS*	OURDMPX	CORPODO			
C000716	OURSYSX	DURDMPX	COOPOOO			
C000717	OURSYS	OURDMPX	COOPOOO			
C000718	OURSYS*	OURDMPX	COOPDOD			
CD00721	DURSYS *	DURDMPX	C000719	C000720	COOPOOO	

Table 7-3 Ada Type E Test Programs and Source Code Files

PROGRAM	CURPORT S	T1 EC/W _ TE	EET CUBBORT		0×4050 4055	
FROOKAH	SUPPURIT	TIES/# - II	SI SUPPURI	SOFTHARE PA	CKAGES USED	<u>11</u>
EADDODO	OURSYS *	OURDMP ×	EAOPOOD			
EF03519	DURSYSX	OURDMPX	EF03500	EF03501	EF03502	EF03503
	EF03504 EF03514	_ EF03509	EF03510	EF03511	EF03512	E F03513
EF03550	OURSPC*	EF03517 OURSYS*	EF03518 Durdmpx	EFOP000		
EFD3551	OURSPCX	DURSYS	OURDMPX	EFOPOOO EFOPOOO		
EF03620	DURSYS*	DURDMPX	EF03600	EF03601	EF03602	EF03603
	EF03604	EF03605	EF03606	EF03607	EF03608	EF03609
	EF03610 EF03616	EF03611	EF03612	EF03613	EF03614	EF03615
EF03650	DURSYSX	EF03617 DURDMPX	EF03618 EF03630	EF03619 EF03631	EF0P000	FF07/77
	EF03634	EF03635	EF03636	EF03637	EF03632 EF03638	EF03633 EF03639
	EF03641	EF03642	EF03643	EF03644	EF03645	EF03646
FF0770/	EF03647	EF03648	EF03649	EF0P000		
EF03704	DURSPC× EF03703	OURSYS* Efopooo	DURDMPX	EF03700	EF03701	EF03702
EF03805	OURSPC*	DURSYS	OURDMPX	EF03800	EF03801	EENTONS
	EF03803	EF03804	EFOPOOO	Erosou	FLADBAT	EF03802
EF04120	DURSYS*	DURDMPX	EFOPOOO			
EF04121	OURSYSX	DURDMPX	EF0P000			
EF04122 EF04123	OURSYS* OURSYS*	DURDMP* DURDMP*	EFOPOOD			
EF04124	OURSYSX	DURDMPX	EFOPOOO EFOPOOO			
EF04125	DURSYSX	DURDMPX	EFOPOOO			
EF04126	OURSYSX	OURDMPX	EF0P000			
EF04127 EFD4128\$	DURSYSX	OURDMPX	EFOPDOO			
EF04128*	OURSPC* OURSYS*	OURSYS* OURDMP*	OURDMP× Efopodo	EF0P000		
EFD412A	OURSPCX	DURSYSX	DURDMPX	570P000		
EF0412B	DURSPCX	DURSYSX	DURDMPX	0P000		
EFD412C	DURSPCX	OURSYSX	OURDMPX	EFOPOOD		
EFD412D EF04130	OURSPCX	OURSYSX	OURDMPX	EFOPODO		
EF04131	DURSPC* DURSPC*	OURSYS* OURSYS*	OURDMP* Ourdmp*	EFOPOOO EFOPOOO		
EF04132	DURSPCX	OURSYS	DURDMPX	EFOP000		
EF04133	OURSPC*	OURSYS*	OURDMPX	EFOPOOO		
EFD4135 EFD4136	OURSPCX	OURSYSX	OURDMPX	EF0P000		
EFD4136	OURSPC* OURSPC*	OURSYS* OURSYS*	QURDMP* Qurdmp*	EFOPODO EFOPODO		
EFD4138	DURSPCX	OURSYS	DURDMPX	EF0P000		
EFD4139	DURSPCX	DURSYS *	DURDMPX	EFOPODO		
EFD413A	DURSPCX	OURSYS*	DURDMPX	EFOPODO		
EFD413B EFD413C	OURSPC* OURSPC*	OURSYS* OURSYS*	DURDMPX	EFOPOOO		
EF0413D	DURSPCX	OURSYS	OURDMP*	EFOPOOO EFOPOOO		
EFD413E	DURSPC *	OURSYS*	OURDMPX	EFOPOOD		
EFD413G	OURSPCX	DURSYS ×	OURDMP *	EFOP000		
EF0413H EF0413I	DURSPCX	OURSYS*	OURDMPX	EF0P000		
EF04131	DURSPCX DURSPCX	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOPODO		
EF0413K	DURSPCX	DURSYSX	OURDMPX	EFOPOOO EFOPOOO		
EF04310	DURSPCX	OURSYSX	DURDMPX	EFOPOOD		
EF04311	OURSPCX	OURSYSX	DURDMPX	EFOPOOO		
EF04312 EF04510	DURSPC×	OURSYS*	DURDMPX	EF0P000		
EF04511	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOPOOO EFOPOOO			
EF04512	OURSYS	DURDMPX	EF0P000			
EF04513	OURSYSX	DURDMPX	EFOPDOO			
EF04514	OURSYSX	OURDMPX	EF0P000			
EF04515 EF04516	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOPO00			
EF04517	DURSYS*	DURDMPX	EFOPOOO EFOPOOO			
ĒF0451J	DURSYS	DURDMPX	EF04518	EF04519	EF0451A	EF0451B
- .	EF0451C	EF0451D	EF0451E	EF0451F	EF04516	EF0451H
	EF0451I	EF0P000		- - -		

Source file supplied with USE file type only

Table 7-3 Ada Type E Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LES(X - TE	ST SUPPORT	OFTHARE PA	CKAGES USED	<u>u</u>
EFD451U\$	DURSYSX	OURDMPX	DURTYPX	EF0P000	EFD451K	EFD451L
FLD42104	EFD451M	EFD451N	EFD4510	EFD451P	EFD4519	EFD451R
EF0451Z	EFD451S OURSYS*	DURDMPX	EF0451V	EF0451H	EF0451X	EF0451Y
• • • • • • • • • • • • • • • • • • • •	EF0P000	OURDMDY.	FFRRANC		i.	
EF04520 EF04521	OURSYS* OURSYS*	OURDMP* Durdmp*	EFOPOOO EFOPOOO			
EF04522	OURSYS*	OURDMP *	EF0P000			•
EFD4523	OURSYSX	OURDMP* OURDMP*	OURTYP* OURTYP*	EFOPOOO EFOPOOO		
EFD4524 EFD4525	OURSYS* Oursys*	DURDMPX	DURTYPX	EF0P000		
EFD4526	DURSYS*	DURDMPX	DURTYPX	EF0P000		
EF04527	DURSYS* DURSPC*	OURDMP* OURSYS*	EFOPOOO OURDMP*	EF0P000		
EFD4528 EF04529	OURSYSX	DURDMPX	EF0P000			
EFD452A	OURSPCX	OURSYSX	OURDMP* EFOPOOO	EF0P000		
EF04530 EF04531	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOPO00			
EF04532	OURSYSX	DURDMP×	EF0P000			
EF04533	DURSYS	OURDMP* Durdmp*	EFOPOOO EFOPOOO			
EF04534 EF04535	DURSYS* Dursys*	OURDMPX	EFOP000			
EF04536	OURSYSX	OURDMPX	EFOP000			
EF04537 EF04538	OURSYS* OURSYS*	OURDMP*	EFOPOOO EFOPOOO			
EF04539	OURSYS	OURDMPX	EFOPODO			
EF0453A	OURSYS	DURDMPX	EFOPODO EFOPODO			
EF0453B EF0453C	DURSYS* DURSYS*	DURDMPX Durdmpx	EFOP000			
EF04540	DURSYSX	DURDMPX	EFOP000			
EF04541	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOPOOO EFOPOOO			
EF04550 EF04551	OURSYS	DURDMPX	EFOPOOO			
EF04552	DURSYSX	DURDMPX	EFOPDOO EFOPDOO			
EF04553 EF04554	DURSYS* DURSYS*	OURDMP* OURDMP*	EFOPO00			
EF04555	OURSYS	DURDMPX	EFOP000			
EF04556 EF04557	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOPOOO EFOPOOO			
EF04558	OURSYS	DURDMPX	EFOPODO			
EF04559	DURSYSX	DURDMP*	EFOPOOD OURTYP*	EF0P000		
EFD455D EFD455E	DURSYS* OURSYS*	DURDMPX	DURTYPE	EF0P000		
EFD455F	OURSYSX	DURDMPX	OURTYPE	EFOPOOO EFOPOOO		
EFD455G	OURSYS* OURSYS*	OURDMP* OURDMP*	OURTYP* OURTYP*	EFOP000		
EFD4551 EFD455J	OURSYS	DURDMPX	DURTYPX	EFDP000		
EFD455K	OURSYS	DURDMPX	OURTYP* Ourtyp*	EFOPOOO EFOPOOO		
EFD455L EF0455N	DURSYS≭ Dursys≭	DURDMPX OURDMPX	EF0P000	2,0,00		
EF04550	OURSYSM	DURDMPX	EFOP000			
EF04560	DURSYS* DURSYS* -	OURDMPX OURDMPX	EFOPOOO EFOPOOO			
EF04562 EF04563	DURSYS	OURDMPX	EFOPODO			
EFD4566	DURSYSX	DURDMPX DURDMPX	DURTYP* Durtyp*	EFOPOOO EFOPOOO		
EFD4567 EFD4568	OURSYS* Oursys*	DURDMPX	OURTYPX	EF0P000		
EFD4569	DURSYS *	DURDMPX	DURTYPX	EF0P000		
EF04600	OURSYS *	OUR DMP*	EFOPOOO EFOPOOO			
EF04601 EF04602	OURSYS* OURSYS*	OURDMPX	EFOPODO			
EFD4603	OURSYSX	DURDMPX	DURTYPX	EFOPOOO EFOPOOO		
EFD4604	DURSYS* Dursys*	DUR DMPX DUR DMPX	DURTYP* Durtyp*	EFOP000		
EFD4605 EFD4606	DURSYS	OURDMPX	DURTYPX	EFOPOOD		

Source file supplied with USE file type only

Table 7-3 Ada Type E Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LESCX - TES	T SUPPORT	SOFTWARE PACKAGES USED)
EFD4607	DURSYS *	OURDMP *	DURTYPX	EF0P000
EFD4608	BURSYSX	OURDMPX	QURTYP* Durtyp*	EF0P000 EF0P000
EFD4609	OURSYS* OURSYS*	OURDMP* OURDMP*	DURTYPE	EF0P000
EFD460A EFD460B	DURSYSX	DURDMPX	DURTYPX	EFOPOOO
EF0460E	DURSYSX	OURDMPX	EF0P000	
EF0460F	OURSYSX	OURDMPX	EF0P000	
EF0460G	OURSYS	OURDMPX	EFOPOOO EFOPODO	
EF0460H EF0460I	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOP000	
EF0460J	DURSPCX	OURSYSX	OURDMPX	EF0P000
EFD460K	OURSPC*	DURSYS *	OURDMPX	EFOP000
EFD460L	OURSPC×	DURSYSX	OURDMP* Ourdmp*	EFOPOOO EFOPOOO
EF0460M	OURSPC* OURSPC*	OURSYS* OURSYS*	OURDMPX	EFOPOOO
EFD460N EFD4600	BURSPCX	DURSYSX	OURDMPX	EFOP000
EF05200	DURSYS*	DURDMPX	EFOP000	
EF05201	DURSYSK	OURDMPX	EFOPOOD	
EF05202	OURSYS* OURSYS*	OURDMP* OURDMP*	EFOPOOO EFOPOOO	
EF05203 EF05204	OURSYSX	DURDMPX	EFOP000	
EF05205	OURSYS*	OURDMPX	EFOP000	
EF05206	DURSYSX	DURDMPX	EFOPODO	
EF05207	OURSYSX	OURDMP* OURDMP*	EFOPOOO EFOPOOO	
EF05208 EF05209	OURSYS* OURSYS*	OURDMPX	EF0P000	
EF0520A	DURSYSX	OURDMPX	EFOP000	
EF0520B	DURSYSX	DURDMPX	EF0P000	PF4000
EFD520C	OURSYSX	OURDMPX	OURTYP* OURTYP*	EFOPOOO EFOPOOO
EFD520D EFD520E	OURSYS* OURSYS*	OURDMP* DURDMP*	OURTYPE	EF0P000
EFD520E	DURSYSX	DURDMPX	OUPTYPX	EFOPODO
EFD520G	OURSYSX	OURDMPK	OUKTYPX	EF0P000
EFD520H	OURSYS	OURDMPX	DURTYPX	EFOPOOO EFOPOOO
EFD520I	OURSYS* OURSYS*	OURDMP*	OURTYP* OURTYP*	EFOP000
EFD520J EF0520M	DURSPCX	DURSYS	OURDMPX	EF0P000
EFD520N	OURSPC×	DURSYSX	DURDMPX	EF0P000
EF05200	OURSPCX	DURSYSX	OURDMPX	EFOPOOO EFOPOOO
EFD520P	OURSPCX	OURSYS* OURSYS*	OURDMP* OURDMP*	EF0P000
EFD520Q EF0520R	OURSPC* OURSPC*	DURSYS	DURDMPX	EF0P000
EF0520S	OURSPC*	DURSYSX	OURDMPX	EF0P000
EF05210	OURSYSX	OURDMPX	EF0P00D	
EF05211	OURSYS* Dursys*	OURDMPX OURDMPX	EFOPOOD EFOPOOD	
EF05212 EF05213	DURSYS	DURDMPX	EFOP000	
EF05214	OURSYS	OURDMPX	EF0P000	
EF05215	DURSYSX	DURDMPX	EF0P000 Ourtypx	EF0P000
EFD5218	OURSYS* OURSYS*	OURDMP*	DURTYPE	EFOPOOO
EFD5219 EFD521A	OURSYS	OURDMPX	DURTYPX	EF0P000
EFD521B	OURSYSX	OURDMPX	OURTYPX	EFOPOOO
EFD521C	OURSYSX	OURDMPX	OURTYPE	EFOPOOO EFOPOOO
EFD521D	OURSYSX	OUR DMP* OUR DMP*	OURTYP* OURTYP*	EFOPOOD
EFD521E EFD521F	DURSYS* DURSYS*	DURDMPX	DURTYPX	EF0P000
EF0521H	DURSYS	OURDMPX	EF0P000	
EF05211	OURSYS *	OURDMPX	EFOPO00	
EF0521J	OURSYS	OURDMP* OURDMP*	EFOPOOD EFOPOOD	•
EF0521K	DURSYS* DURSPC*	OURSYSK	DURDMPX	EF0P000
EFD521K EF0521L	OURSPC	DURSYS	OURDMPX	EFOPOOO
EFD521M	OURSPCX	DURSYSX	OURDMPX	EFOPOOO
EF0521N	DURSPCX	OURSYS	OURDMPX	EF0P000

Table 7-3 Ada Type E Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LESCH - TES	T SUPPORT S	OFTWARE PAC	KAGES USED)	
	01100000		01100101			
EFD5210	OURSPCX	DURSYSX	DURDMPX	EF0P000		
EFD521P EF05304	DURSPC* Dursys*	DURSYS* DURDMP*	OURDMPX EF05300	EFOPOOO EFO5301	EF05302	EF05303
Erujjua	EFOP000	OUNDALA	EL03300	FLASSAT	Erussuz	FL03303
EF05308	OURSYSX	OURDMP *	EF05305	EF05306	EF05307	EFOP000
EF05408	OURSYS*	OURDMP ×	EF05400	EF05401	EF05402	EF05403
	EF05404	EF05405	EF05406	EF05407	EF0P000	
EF05505	OURSYS*	DURDMP ×	EF05501	EF05502	EF05503	E F05504
	EFOP000	0110011011				EE05500
EF0550C	OURSYSX	OURDMPX	EF05506	EF05507	EF05508	EF05509
EF0550D	EF0550A Dursys*	EF0550B Durdmpx	EFOPOOO EFOPOOO			
EF0550E	DURSYSX	DURDMPX	EFOPOOD			
EF0550F	DURSYS	OURDMPX	EFOPODO			
EF06001	OURSYSX	DURDMPX	EFOPOOO			
EF06009	DURSYS ×	DURDMP *	EF0P000			
EF06010	DURSYSX	DURDMPX	EFOP000			
EF06011	OURSYSX	OURDMPX	EFOP000	FF0/01/	FF-/-15	FF0/01/
EF06022	OURSYS* EF06017	OURDMPX EF06018	EF06013 EF06019	EF06014 EF0P000	EF06015	EF06016
EF06033	DURSYS	DURDMPX	EF06023	EF06024	EF06025	EF06026
E. 0000	EF06027	EF06028	EF06029	EF06030	EF06031	EF06032
	EFOP000	0.0000		2	2	2
EF06053	DURSYS *	OURDMP *	EF06043	EF06044	EF06045	EF06046
	EF06047	EF06048	EF06049	E F06050	EF06051	E F06052
EFA/A/A	EF0P000	AURBMAY	FFD/0/0	FF0/0/3	250/0/0	EPA/A/7
EF06069	OURSYS* EF06064	OURDMPX EF06065	EF06060 EF06066	EF06061 EF06067	EF06062 EF06068	EFD6063 EFOP000
EF06079	DURSYS	DURDMPX	EF06070	EF06071	EF06072	EF06073
2, 000, 7	EF06074	EF06075	EF06076	EF06077	EF06078	EFOP000
EF06101	DURSYSK	DURDMPX	EF06100	EFOP000		
EF06109	DURSYSX	OURDMPX	EF06108	EF0P000		
EF06110	DURSYSX	OURDMPX	EF06108	EFOPOOO		•
EF06111 EF06122	OURSYS* Oursys*	OURDMP* OURDMP*	EF06108 EF06112	EF0P000 EF06113	EF06114	EF06115
CIUUILL	EF06116	EF06117	EF06118	EF06119	EFOPOOD	LI 00117
EF06140	OURSYS*	OURDMPX	EF06132	EF06133	EF06134	EF06135
	EF06136	EF06137	EF06138	EF06139	EF0P000	
EF06150	OURSYS*	DURDMPX	EF06142	EF06143	EF06144	EF06145
EF06160	EF06146 Dursys*	EF06147 Ourdmpx	EF06148 EF06152	EF06149 EF06153	EF0P000 EF06154	EF06155
FLADIDA	EF06156	EF06157	EF06158	EF06159	EFOPOOO	FLAGISS
EF06170	DURSYSX	DURDMPX	EF06162	EF06163	EF06164	EF06165
	EF06166	EF06167	EF06168	EF06169	EFOPDOO	
EF06180	OURSYS*	OURDMPX	EF06172	EF06173	EF06174	EF06175
EF06190	EF06176	EF06177 Durdmpx	EF06178	EF06179	EFOPO00	PF0/105
ELAGIAN	OURSYS* EF06186	EF06187	EF06182 EF06188	EF06183 EF06189	EF06184 EF0P000	EF06185
EF06199	DURSPCK	DURSYSX	OURDMPX	EF06191	EF06192	EF06193
	EF06194	EF06195	EF06196	EF06197	EF06198	EFOPOOO
EF0619I	DURSPCX	OURSYSX	OURDMPX	EF0619A	EF0619B	EF0619C
	EF0619D	EF0619E	EF0619F	EF0619G	EF0619H	EF0P000
EF0619R	OURSPCK	OURSYS	OURDMPX	EF0619J	EF0619K	EF06191
EFD6201	EF0619M OURSYS*	EF0619N OURDMP×	EF06190 EF0P000	EF0619P	EF0619Q	EF0P000
EFD6201	OURSYS#	DURDMPX	EFDP000			
EFD6210	DURSYS	DURDMPX	EFOP000			
EFD6211	DURSYS*	OURDMP×	EFOP000			
EFD6222	DURSYSX	DURDMP×	EFOPOOO	EFD6213	EFD6214	EFD6215
	EFD6216	EFD6217	EFD6218	EFD6219		
EFD6233	OURSYS*	OURDMPX	EFOPOOO	EFD6223	EFD6224	EFD6225
	EFD6226 EFD6232	EFD6227	EFD6228	EFD6229	EFD6230	EFD6231
EFD6253	OURSYS	OURDMPX	EF0P000	EFD6243	EFD6244	EFD6245
	EFD6246	EFD6247	EFD6248	EFD6249	EFD6250	EFD6251
				-		

Table 7-3 Ada Type E Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	ILES(× - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
	EFD6252					
EFD6269	DURSYS*	OURDMP *	EFOPOOO	EFD6260	EFD6261	EFD6262
	EFD6263	EFD6264	EFD6265	EFD6266	EFD6267	EFD6268
EFD6279	OURSYS*	OURDMPX	EFOP000	EFD6270	EFD6271	EFD6272
EED/ 701	EFD6273 OURSYS*	EFD6274	EFD6275	EFD6276	EFD6277	EFD6278
EFD6301 EFD6309	OURSYSX	OURDMPX OURDMPX	EFOPOOO EFOPOOO	EFD6300 EFD6308		
EFD6310	DURSYS	OURDMPX	EFOPOOD	EFD6308		•
EFD6311	OURSYSX	OURDMPX	EFOPODO	EFD6308		
EFD6322	DURSYS *	OURDMP*	EF0P000	EFD6312	EFD6313	EFD6314
	EFD6315	EFD6316	EFD6317	EFD6318	EFD6319	
EFD6340	OURSYS*	OURDMPX	EF0P000	EFD6332	EFD6333	EFD6334
EED/ZEA	EFD6335 OURSYSX	EFD6336 OURDMP×	EFD6337	EFD6338 EFD6342	EFD6339 EFD6343	EFD6344
EFD6350	EFD6345	EFD6346	EFOPOOO EFD6347	EFD6342	EFD6349	EFU0344
EFD6360	DURSYSX	OURDMP*	EFOP000	EFD6352	EFD6353	EFD6354
2. 55555	EFD6355	EFD6356	EFD6357	EFD6358	EFD6359	2, 5005 .
EFD6370	DURSYS *	OURDMP *	EF0P000	EFD6362	EFD6363	EFD6364
	EFD6365	EFD6366	EFD6367	EFD6368	EFD6369	
EFD6380	OURSYSX	OURDMPX	EFOP000	EFD6372	EFD6373	EFD6374
EFD6390	EFD6375 OURSYS*	EFD6376 OURDMP×	EFD6377 EFOPOOD	EFD6378 EFD6382	EFD6379 EFD6383	EFD6384
EL DO 240	EFD6385	EFD6386	EFD6387	EFD6388	EFD6389	EF DO 304
EF0642B	DURSPCX	DURSYS	OURDMPX	EF06422	EF06423	EF06424
2.00.25	EF06425	EF06426	EF06427	EF06428	EF06429	EF0642A
	EF0P000					
EF06803	OURSYS*	DURDMPX	EF06802	EF0P000		
EF06807	OURSYS	OURDMPX	EF06806	EFOP000		
EF06809 EF0680B	OURSPC* OURSPC*	OURSYS* OURSYS*	OURDMP* OURDMP*	EF06808 EF0680A	EFOPOOO	
EF0680D	DURSPCX	OURSYS	DURDMPX	EF0680C	EFOPOCO EFOPOCO	
EF0680F	DURSPCX	OURSYS	DURDMPX	EF0680E	EFOP000	
EFD680H	DURSPCX	OURSYS	OURDMPX	EFOPOOD	EFD680G	
EFD680J	OURSPC *	DURSYS *	DURDMPX	EFDPODO	EFD6801	
EF06811	OURSYSX	OURDMPX	EF06810	EF0P000		
EF06815	OURSYS	OURDMPX	EF06814	EF0P000		
EF06817 EF06819	DURSYS* OURSYS*	OURDMP* OURDMP*	EF06816 EF06818	EFOPOOO EFOPOOO		
EF06821	DURSYS	OURDMPX	EF06820	EFOP000		
EF06823	DURSPCX	DURSYS	OURDMPX	EF06822	EFOPOOO	
EF06825	DURSPC*	OURSYS*	OURDMPX	EF06824	EFOP000	
EFN9301	OURSPC *	OURSYSX	EFN9300			
EFN9302	DURSPCX	DURSYSX	EFN9300			
EFN9303	OURSPCX	DURSYS	EFN9300	Francos	2500000	
EF09501 EF09502	OURSPC* DURSPC*	OURSYS*	DURDMP* OURDMP*	EF09500 EF09500	EFOPOOO EFOPOOO	
EF09503	DURSPCX	OURSYSX	DURDMPX	EF09500	EF0P000	
EF09504	DURSPCX	DURSYSX	OURDMPX	EF09500	EFOPOOD	
EF09505	DURSPC ×	DURSYS *	OURDMPX	EF09500	EFOP000	
EF09506	DURSPCX	DURSYS*	DURDMPX	EF09500	EFOP000	
EF09507	OURSPCX	DURSYS	OURDMPX	EF09500	EFOP000	
EF09508	OURSPC* OURSPC*	OURSYS* OURSYS*	OURDMPX OURDMPX	EF09500 EF09500	EFOPOOO EFOPOOO	
EF09509 EFN9511	OURSPC	OURSYS	EFN9510	EFU7JUU	EFUFUUU	
EF09600	DURSPC	OURSYS	EFOPOOD			
EF09601	DURSPCX	DURSYS	EFOP000			
EF09602	OURSPCX	DURSYS *	EF0P000			
EF09603	DURSPCX	DURSYS*	EF0P000			
EF09604	DURSPCX	OURSYSX	EF0P000			
EF09605	OURSPC* Durspc*	OURSYS	EFOPOOO EFOPOOO			
EF09606 EF09607	OURSPC	OURSYS* OURSYS*	EF0P000			
EFN9611	DURSPCX	OURSYS	FLALORA			
EFN9612	OURSPC	OURSYS	EFN9610			
EFN9613	DURSPC×	DURSYS*	EFN9610			

Table 7-3 Ada Type E Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	LESCH - TE	ST SUPPORT	SOFTHARE PAG	KAGES USED)	•
EF09711	DURSYS*	EF09710	EFOPODO			
EF09713	OURSYS*	EF09712	EFOPOOO			
EF09720	OURSPCX	OURSYS*	OURDMPX	EF09500	EF0P000	
EF09721	DURSPCX	DURSYS*	OURDMPX	EF09500	EF0P000	
EF09731	OURSPCX	DURSYS*	OURDMPX	EF09500	EF0P000	
EF09901	OURSYS	EF09900	EF0P000			
EF09902 EF09903	OURSYS* OURSYS*	EF09900 EF09900	EFOPOOO EFOPOOO			•
EFM9AD1	DURSPC*	DURSYSX	EFM9A00			
EFM9A02	DURSPCX	DURSYSX	EFM9A00			
EFM9A03	DURSPCX	OURSYSX	EFM9A00			
EF09B01	DURSPC×	OURSYSX	OURDMPX	EF09500	EF0P000	
EFD9C00	OURSPC×	DURSYSX	EFOPOOO	EFD9000		
EFD9C01	DURSPC×	DURSYS*	EF0P000	EFD9000	EFD9200	
EFD9C02	OURSPCX	DURSYSX	EFOPOOO	EFD9000	EFD9200	
EFD9C03	OURSPCX	OURSYS	EFOPOOO	EFD9000	EFD9200	
EFD9C04	DURSPCX	OURSYSX	EF0P000	EFD9000	EFD9200	FF00000
EFOC301 EFOC302	OURSYS* Oursys*	OURDMP* OURDMP*	EFOC100 EFOC100	EFOC101 EFOC101	EFOC300 EFOC300	EFOPO00
EFOC304	DURSYS*	DURDMPX	EFOC100	EFOCIOS	EFOC303	EFOPOOO EFOPOOO
EFOC305	DURSYSX	OURDMPX	EFOC102	EFOPODO	Erucjuj	Erorou
EFOC306	OURSYSX	DURDMPX	EFOC102	EFOPOOO		
EFOC307	DURSYSX	DURDMPX	EFOC102	EFOPOOD		
EFDC311	DURSYS*	OURDMPX	EFOPOOO	EFDC104	EFDC105	EFDC310
EFDC314	OURSYS *	DURDMPX	EFOPOOD	EFDC106	EFDC107**	EFDC313
EFDD600	DURSPC *	OURSYS*	EF0P000			
EFDD601	DURSPC *	DURSYS*	EF0P000			
EFDD602	OURSPCX	DURSYS*	EF0P000			
EFDD603	OURSPCX	OURSYSX	EF0P000			
EFDD604	OURSPCX	OURSYSX	EF0P000			
EFDD605 EFDD606	OURSPC× OURSPC×	OURSYS* OURSYS*	EFOPOOO EFOPOOD		•	
EFDD607	DURSPC×	OURSYS	EFOPODO			
EFDD608\$	DURSPCX	OURSYS	EFOPOOD			
EFDD609	DURSPCX	OURSYSX	EFOPOGO			
EFDD610	DURSPC×	OURSYS*	EFOPOOO			
EFDD611	DURSPCX	DURSYS*	EFOPOOD			
EFDDA01	DURSPC×	DURSYS *	EF0P000			
EFDDA02	DURSPC *	DURSYS*	EFOPODO			
EFDE220	DURSYSX	DURDMPX	EF0P000	EFDE000	EFDE201	EFDE202
	EFDE203	EFDE204	EFDE205	EFDE206	EFDE207	EFDE208
	EFDE209	EFDE20A EFDE216	EFDE211	EFDE212	EFDE213	EFDE214
EFDE250	EFDE215 OURSYS*	OURDMPX	EFOPOO 0	EFDE000	EFDE231	EFDE232
LT DLESO	EFDE233	EFDE234	EFDE235	EFDE236	EFDE237	EFDE238
	EFDE239	EFDE23A	EFDE241	EFDE242	EFDE243	EFDE244
	EFDE245	EFDE246	6, 50640	61 266 16	C. 50010	D. 700 11
EFDE420	DURSYS*	OURDMPX	EFOPODO	EFDE000	EFDE401	EFDE402
	EFDE403	EFDE404	EFDE405	EFDE406	EFDE407	EFDE408
	EFDE409	EFDE40A	EFDE411	EFDE412	EFDE413	EFDE414
	EFDE415	EFDE416				
EFDE450	DURSYSX	DURDMPX	EF0P000	EFDE000	EFDE431	EFDE432
	EFDE433	EFDE434	EFDE435	EFDE436	EFDE437	EFDE438
	EFDE439	EFDE43A	EFDE441	EFDE442	EFDE443	EFDE444
EFDF000	EFDE445 Dursys*	EFDE446 OURDMP#	MATHFUNX	EF0P000		
EFDF001	OURSYSX	DURDMP*	MATHFUNK	EFOP000		
EFDF002	OURSYS*	OURDMPX	MATHFUNX	EFOPODO		
EFDF003	OURSYS	DURDMPX	MATHFUNX	EFOPOOO		
EFDF004	OURSYS	DURDMPX	MATHFUNX	EFOPOOO		
EFDF005	DURSYSX	OURDMPX	MATHFUNX	EF0P000		
EGD0001	OURSYSX	MATHFUNK	EGOPOOO	EGDOOOO		
EGD0003	DURSYS ×	EGOPOOO	EGD0002			
			· 			

^{##} Multiple versions of source file supplied(USE and ADA file types)
Source file supplied with DEC file type only
Source file supplied with USE file type only

Table 7-3 Ade Type E Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT	FILES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
EGD0009	OURSYS* EGD0008	EGOPOOO	EGD0004	EGD0005	EGD0006	EGD0007
EGOODOC	OURSYSX	OURDMPX	EG0P000			
EGDOODE	DURSYSX	MATHFUNX	EGOPOOD	EGDOOOO	EGD000D	
EGNOOOK	OURSYSX	EGNOODF	EGNODOG	EGNDOOH	EGNOOOI	EGNODDJ
EGD0039	DURSPC×	DURSYS *	EGOPOOO	EGD0004	EGD0005	EGD0006
	EGD0007	EGD0008	EGD0019	EGD0029		
EGD0049	DURSPC *	DURSYS*	EGOPOOD	EGD0004	EGD0005	EGD0006
	EGD0007	EGD0008	EGD0019	EGD0029		
EGD0059##	DURSPC *	OURSYS*	EG0P000	EGD0004	EGD0005	EGD0006
	EGD0007	EGD0008	EGD0019	EGD0029		
EL 09101	DURSPC×	OURSYS *	EL09000	EL 09100	EL OPO OO	
EL 09111	OURSPCX	DURSYSX	EL09000	EL09100	EL OPOOO	
EL09121	DURSPCX	DURSYSX	EL09000	EL09100	ELOPOOO	
EL 09131	DURSPCX	DURSYSX	EL 09000	EL09100	ELOPOOO	
ELD9202 ELD9203	DURSPCX	DURSYSX	EL 09000	EL09100	EL OPOOO	EL D9200
EL D9204	DURSPCX	OURSYSX	EL 09000	EL 09100	ELOPODO	EL D9200
EL D9212	OURSPC*	DURSYSX	ELD9000	EL 09100	ELOPODO	EL D9200
EL D9213	OURSPCX	OURSYS* Oursys*	EL 09000 El 09000	EL09100	ELOPODO	EL D9200
EL D9214	DURSPCX	DURSYS*	EL 09000	EL09100	ELOPOOO	EL 09200 EL 09200
EL 09222	DURSPCX	OURSYSX	EL 09000	EL 09100	ELOPOOO Elopooo	EL 09200
ELD9223	OURSPCX	OURSYS	EL 09000	EL09100	ELOPOOO	EL 09200
EL D9224	DURSPCX	OURSYSX	EL 09000	EL 09100	ELOPODO	EL 09200
EL D9232	DURSPCX	OURSYS*	EL 09000	EL 09100	ELOPODO	EL 09200
EL D9233	OURSPC *	OURSYS*	EL09000	EL 09100	ELOPOOO	EL D9200
EL D923488	DURSPC *	DURSYS *	EL09000	EL 09100	ELOPODO	EL D9200
ELDE2C1	OURSPC *	DURSYS *	ELOPODO	ELDEOOO	EL DE 2B1	
EL DEZCZ	DURSPCX	QURSYS ×	EL0P000	ELDE000	ELDE2B1	
ELDE2C3	OURSPCX	DURSYSX	ELOPOOO	ELDEOOO	ELDE2B1	
ELDEZC4	DURSPCX	OURSYS *	ELOPODO	ELDEOOO	ELDE2B1	
ELDE2C5	OURSPCX	OURSYSX	ELOPODO	EL DE OOO	EL DE 2B2	
EL DESCA	OURSPCX	OURSYSX	ELOPICO	EL DEOOO	EL DE 2B2	
ELDE2C7 ** ELDE2C8 **	OURSPC* Ourspc*	OURSYS* Oursys*	ELOPOOO Elopooo	EL DE DOO	ELDE2B2	
EL DE 4C1	OURSPC	OURSYS*	ELOPOOD	EL DE OOO	ELDE2B2 ELDE4B1	
EL DE4C2	DURSPC	OURSYSX	ELOPOOD	EL DEOOO	EL DE 4B1	
ELDE4C3**	OURSPCX	DURSYS	ELOPOOD	ELDEGGO	EL DE 4B1	
EL DE4C4	DURSPCX	OURSYS	ELOPODO	ELDEGGO	EL DE 4B1	
ELDE4C5	DURSPCX	DURSYS*	ELOPODO	ELDEOOO	ELDE4B2	
ELDE4C6 ELDE4C7	DURSPC ×	OURSYSX	ELOPODO	ELDEOOO	ELDE4B2	
ELDE4C7	OURSPC *	DURSYS *	ELOPODO	EL DEOOO	ELDE4B2	
ELDE4C8	DURSPCX	OURSYS*	ELOPODO	ELDECCO	ELDE4B2	
E000104	OURSYSX	OURDMPX	E000002	E000102	E000103	EDOPODO
E000109	OURSYSX	OURDMPX	E000001	E000107	E000108	EDOPOOD
E000114 E000204	OURSYS* OURSYS*	OURDMPX	E000001	E000112	E000113	EOOPOOO
E000209	OURSYS*	DURDMPX Durdmpx	E000202 E000001	E000203 E000207	EDOPOOD	ENGRAGE
E000300	DURSYS	FOODOO	Ennanit	F000501	E000208	EOOPOOO
E000305	OURSYS	EOOPDOO				
E000310	DURSYSX	EOOPOOO				
E000313	OURSYSM	OURDMPX	E000311	E000312	EOOPOOO	
E000316	OURSYSX	OURDMPX	E000314	E000315	EDOPODO	
E000319	OURSYS	OURDMPX	E000317	E000318	EOOPOOO	
E000322	DURSYS	OURDMPX	E000320	E000321	EOOPOOO	
E000325	OURSYS	DURDMPX	E000323	E000324	EDOPOOO	
E000328	OURSYSX	OURDMPX	E000326	E000327	EDOPOOO	
E000331	OURSYSX	OURDMPX	E000329	E000330	EOOPOOO	
E000334 E000337	OURSYS* Oursys*	OURDMPX	E000332	E000333	EDOPODO	
E000337	OURSYS*	OURDMP* OURDMP*	E000335 E000338	E000336 E000339	EDOPOOO	
E000343	OURSYS	OURDMPX	E000338	E000339 E000342	EOOPOOO Eoopooo	
EDD0346	OURSYSX	OURDMPX	MATHFUNX	E000342	E000344	E000345
E000350	DURSYS	DURDMPX	E000347	E000348	ED00349	EOOPOOO
	JU., J		2000011		2000377	200,000

48 Source file supplied with DEC file type only

Table 7-3 Ada Type E Test Programs and Source Code Files (concluded)

PROGRAM	SUPPORT F	ILES(× - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	1
E000353	DURSYSX	OURDMP *	E000347	E000351 .	E000352	EDOPOGO
E000356	DURSYSX	OURDMP*	E000354	E000355	EOOPOOD	2001 000
E000359	OURSYSK	OURDMPX	E000357	E000358	EDOPDOO	
E000362	OURSYSX	DURDMPX	E000360	E000361	EDOPODO	
E000365	DURSPCX	OURSYS	DURDMPX	E000363	E000364	EOOPOOO
E000368	OURSPCX	DURSYS	DURDMPX	E000366	E000367	£00P000
E00036B	DURSPCX	OURSYS	DURDMPX	E000369	E00036A	EOOPOOO
EOD036E	DURSPCX	DURSYSX	OURDMPX	EOOPOOO	EDD036C	EODO36D
E00036H	DURSPCX	DURSYSX	OURDMPX	E00036F	E00036G	EOOPOOO
E00036K	OURSPCX	DURSYSX	DURDMPX	E000361	E000367	EDOPOOD
E00036N	OURSPCX	DURSYSX	OURDMPX	E000361	E000365 E00036M	
EOD0360	DURSPCX	DURSYSX	OURDMPX	EOOPOOO		EDOPOOD
EODO36T	OURSPCX	OURSYSX	OURDMPX	EODPOOD	EODO360 EODO36R	EODO36P EODO36S
E00036H	OURSPCX	DURSYS	DURDMPX	E00036U	E00036V	EOOPOOO
EOD036Z	OURSYS	DURDMPX	OURTYPE	E000360 E00P000	EODO36X	
E0D0373	OURSPCX	OURSYS	DURDMPX	EDOPOOO	EODO370	EODO36Y EODO371
CODOJIJ	EOD0372	OURSISA	OUKDALX	EUUPUUU	EGD03/0	EDD0211
E000378	DURSYSX	DURDMPX	E000374	E000375	E000376	£000777
2000370	EOOPOOD	UUKUHFA	E0003/4	EUUU3/3	E000210	E000377
EOD0383	OURSPCX	OURSYS*	DURDMPX	E000374	2000000	E020740
FODUJOJ	EOD0381	EDD0382	UUKUMPR	E0003/4	EOOPOOO	E0D0380
E000391	OURSYS	OURDMPX	E000700	FOADAAA		
E000404	OURSYSX	DURDMPX	E000390 E000402	EOOPOOO	F04044	
E000500	DURSYSX	EDOPODO	E000402	E000403	ECOPOCO	
E000504	OURSYSX	DURDMPX	E000500	-	F000000	
E000509	OURSYSE	DURDMPX	E000502	E000503	EOOPOOO	
E000514	DURSYSX	DURDMPX	E000507	E000508	EOOPOOO	
E000514	OURSYS	DURDMPX	E000512	E000513	EOOPOOO	
E000525	DURSYSX	DURDMPX	E000517	E000518	EOOPOOO	
E0D0529	OURSYS*		EOOPOOO	EOD0523	EOD0524	5050500
E000604	OURSYS	OURDMP* OURDMP*	EOOPOOO	EDD0526	EDD0527	EOD0528
E000605	OURSYS	DURDMPX	E000602	E000603	EOOPOOO	
E000605	DURSYSX	DURDMPX	EOOPOOO			
E000607	OURSYS		EOOPOOO			
E000704	OURSYS	OURDMPX	E00P000 E000702	F	F00000	
E000705	OURSYSE	OURDMP* DURDMP*		E000703	EOOPOOO	
E000703			EOOPOOO	5000505		
E000708	OURSYS* Oursys*	OURDMP* OURDMP*	E000706	E000707	EOOPOOD	
E000711			E000709	E000710	EOOPOOO	
E000713	DURSYSX	OURDMPX	EOOPOOO			
	OURSYSX	OURDMPX	EOOPOOO			
ED00715 ED00716	DURSYS	OURDMPX	EDOPOOO			
E000717	OURSYS	OURDMPX	EOOPOOO			
	DURSYSX	DURDMPX	EDOPOOO			
E000718 E000721	DURSYSX	OURDMPX	EOOPOOO		FOOD	
E000/21	OURSYS*	OURDMPX	E000719	E000720	EDOPODO	

Table G-4. Ada Type S Test Programs and Source Code Files

			•			
PROGRAM	SUPPORT	FILES(* - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED)
						_
SA00000	DURSYSX	DURDMPX	SAOPOOO			
SF03519	OURSYSX	DURDMPX	SF03500	SF03501	SF03502	SF03503
	SF03504	SF03509	SF03510	SF03511	SF03512	SF03513
0503550	SF03514	SF03517	SF03518	SFOPOOO		
SF03550	DURSPCX	DURSYSX	DURDMPX	SFOPODO		
SFD3551	OURSPCX	DURSYSX	OURDMPX	SFOPOOO		
SF03620	OURSYSX	OURDMPX	SF03600	SF03601	SF03602	SF03603
	SF03604	SF03605	SF03606	SF03607	SF03608	SF03609
	SF03610 SF03616	SF03611	SF03612	SF03613	SF03614	SF03615
SF03650	OURSYSX	SF03617 Durdmp×	SF03618	SF03619	SFOPOOO	*****
3103630	SF03634	SF03635	\$F03630	SF03631	SF03632	SF03633
	SF03641	SF03642	SF03636 SF03643	SF03637 SF03644	SF03638	SF03639
	SF03647	SF03648	SF03649	SFOP000	SF03645	SF03646
SF03704	DURSPC*	OURSYSX	DURDMPX	SF03700	SF03701	SF03702
0.00.07	SF03703	SFOPOOO	OURDIN A	31 437 44	3103/01	3103/02
SF03805	OURSPCX	OURSYS	OURDMP *	SF03800	SF03801	SF03802
	SF03803	SF03804	SFOPOOO	3. 03000	31 03001	3103002
SF04120	OURSYS	OURDMPX	SFOPOOO			
SF04121	OURSYSX	DURDMPX	SFOPOOO			
SF04122	OURSYS*	DURDMPX	SFOPOOO			
SF04123	OURSYS	OURDMP *	SFOPOOO			
SF04124	OURSYS*	DURDMP *	SFOPOOO			
SF04125	DURSYS ×	OURDMPX	SFOPOOO			
SF04126	OURSYS*	DURDMP ×	SFOPOOO			
SF04127	OURSYS*	OURDMP*	SFOPOOO			
SFD4128\$	OURSPC×	DURSYS*	OURDMPX	SFOPOOO		
SF04129	OURSYSX	OURDMPX	SFOPOOO			•
SFD41ZA	DURSPCX	OURSYSX	OURDMPX	SFOPOOO		
SF0412B	DURSPCX	OURSYS	DURDMPX	SFOPOOO		
SFD412C	OURSPC×	DURSYSX	DURDMPX	SFOPOOO		
SFD412D SF04130	OURSPC*	OURSYSX	OURDMPX	SFOPODO		
SF04130	OURSPC* Ourspc*	OURSYSX	OURDMPX	SFOPOOO		
SF04131	OURSPCX	OURSYS* Oursys*	OURDMPX	SFOPOOO		
SF04133	OURSPCX	OURSYSX	OURDMPX	SFOPOOO		
SFD4135	OURSPCX	OURSYSX	OURDMP* OURDMP*	SFOPOOO SFOPOOO		
SFD4136	OURSPCX	DURSYS	DURDMPX	SFOPOOO		
SFD4137	DURSPCX	OURSYS	OURDMPX	SFOPOOO		
SFD4138	DURSPCX	OURSYSX	OURDMPX	SFOPOOO		
SFD4139	OURSPC	DURSYSX	OURDMPX	SFOPOOO		
SFD413A	DURSPCX	DURSYSX	OURDMPX	SFOPOOO		
SFD413B	DURSPC *	OURSYS*	DURDMPX	SFOPOOO		
SFD413C	OURSPC *	DURSYS *	OURDMPX	SFOPOOO		
SF0413D	DURSPC *	DURSYS ×	OURDMPX	SFOPOOO		
SFD413E	OURSPCX	OURSYS*	QURDMP ×	SFOPOOO		
SFD413G	OURSPCX	OURSYSX	OURDMPX	SFOPOOO	•	
SF0413H	DURSPC×	OURSYS*	OURDMPX	SFOPOOO		
SF0413I	DURSPCX	OURSYS	DURDMPX	SFOPOOO		
SF0413J	OURSPCX	OURSYSX	DURDMP×	SFOPOOO		
SF0413K SF04310	OURSPCX	DURSYSX	OURDMPX	SF0P000		
SF04310	DURSPCX	OURSYS	DURDMPX	SFOPOOO		
SF04311 SF04312	DURSPC* Durspc*	OURSYS* Oursys*	OURDMPX	SFOPOOO		
SF04512 SF04510	OURSYSK	OURDMP*	OURDMP* Sfopddo	SF0P000		
SF04511	OURSYS*	OURDMPX	SFOPOOO			
SF04512	OURSYS	OURDMPX	SFOPOOO			
SF04513	OURSYS	DURDMPX	SFOPOOO			
SF04514	OURSYSE	OURDMPX	SFOPOOO			
SF04515	OURSYSE	DURDMPX	SFOPODO			
SF04516	DURSYS	OURDMPX	SFOPODO			
SF04517	OURSYSE	OURDMPX	SFOPOOO			
SF0451J	DURSYSK	DURDMPX	SF04518	SF04519	SF0451A	SF0451B
	SF0451C	SF0451D	SF0451E	SF0451F	SF04516	SF0451H
	SF04511	SFOPOOO		= :		J. J. 125

[#] Source file supplied with USE file type only

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT F	ILES(× - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	<u>u</u>
SFD451U\$	DURSYSX SFD451M SFD451S	OURDMP* SFD451N	OURTYPX SFD4510	SF0P000 SFD451P	SFD451K SFD451Q	SFD451L SFD451R
SF0451Z	OURSYS* SFOPOOO	OURDMP×	SF0451V	SF0451H	SF0451X	SF0451Y
SF04520	OURSYS	OURDMPX	SFOPOOO			
SF04521 SF04522	OURSYS* OURSYS*	DURDMPX	SFOPOOO			_
SFD4523	OURSYSE	OURDMP* OURDMP*	SFOPOOO OURTYP*	CEADAAA		•
SFD4524	OURSYS	DURDMPX	OURTYPE	SFOPOOO SFOPOOO		
SFD4525	OURSYSX	DURDMPX	OURTYPE	SFOPOOD		
SFD4526	DURSYS ×	OURDMP ×	OURTYPE	SFOPOOO		
SF04527	OURSYSX	OURDMPX	SFOPOOO			
SFD4528 SF04529	OURSPCX	OURSYS	OURDMPX	SFOPOOO		
SFD452A	OURSYS* Ourspc*	OURDMP* OURSYS*	SFOPOOO OURDMPx	SFOPOOO		
SF04530	OURSYSX	OURDMPX	SFOPODO	3707000		
SF04531	OURSYSX	OURDMPX	SFOPOOO			
SF04532	DURSYS ×	OURDMP *	SFOPDOO			
SF04533	OURSYSX	OURDMPX	SFOPOOO			
SF04534 SF04535	OURSYS* Oursys*	OURDMP*	SFOPOGO SFOPOGO			
SF04536	OURSYSX	DURDMPX	SFOPODO			
SF04537	OURSYSX	DURDMPX	SFOPODO			
SF04538	DURSYS *	OURDMPX	SFOPOOD			
SF04539	OURSYSX	DURDMPX	SFOPOOO			
SF0453A SF0453B	OURSYSX	DURDMPX	SFOPOOO			
SF0453C	OURSYS* OURSYS*	OURDMPX OURDMPX	SFOPOOO SFOPOOO			
SF04540	OURSYSX	OURDMPX	SFOPOOO			
SF04541	OURSYSX	OURDMP*	SFOPOOO			
SF04550	OURSYSX	DURDMP ×	SFOPOOD			
SF04551	OURSYSX	DURDMPX	SFOPOOO			•
SF04552 SF04553	OURSYS* OURSYS*	OURDMP* OURDMP*	SFOPOOO			
SF04554	OURSYSX	OURDMPX	SFOPDOO SFOPDOO			
SF04555	DURSYSX	DURDMPX	SFOPODO			
SF04556	DURSYSX	DURDMPX	SFOPOOO			
SF04557	OURSYSX	DURDMPX	SFOPODO			
SF04558 SF04559	OURSYS* OURSYS*	OURDMP* OURDMP*	SFOPDOD			
SFD455D	OURSYSE	DURDMPX	SFDP000 Durtypx	SFOPOOO		
SFD455E	OURSYSX	DURDMPX	DURTYPX	SFOPOOO		
SFD455F	DURSYS ×	DURDMPX	DURTYPX	SFOPODO		
SFD455G	OURSYS	OURDMPX	DURTYPX	SFOPODO		
SFD455I SFD455J	DURSYS* Dursys*	OURDMPX	DURTYPX	SFOPOOO	•	
SFD455K	DURSYSX	OURDMP* OURDMP*	OURTYP* OURTYP*	SFOPOOO SFOPOOO		
SFD455L	DURSYSX	DURDMPX	OURTYPE	SFOPOOD		
SF0455N	DURSYSX	OURDMPX	SFOPODO	0. 0. 000		
SF04550	DURSYSX	OURDMPX	SFOPOOO			
SF04560 SF04562	OURSYS*	OURDMPX	SFOPOOO SFOPOOO			
SF04563	DURSYSX	DURDMP* DURDMP*	SFOPOOO			
SFD4566	OURSYSX	OURDMPX	DURTYPX	SFOPGOO		
SFD4567	DURSYSX	DURDMPX	OURTYPE	SFOPOOO		
SFU4568	DURSYS ×	OURDMPX	DURTYPX	SFOPOOO		
SFD4569	DURSYSK	OURDMPX	DURTYPX	SFOPOOO		
SF04600 SF04601	OURSYS* Oursys*	OURDMP* OURDMP*	SFOPOOO SFOPOOO			
SF04602	DURSYSX	DURDMPX	SF0P000			
SFD4603	DURSYSX	OURDMPX	DURTYPE	SFOPOOO		
SFD4604	OURSYSX	OURDMPX	DURTYPX	SFOPOOO		
SFD4605	OURSYS	OURDMPX	OURTYPX	SFOPODO		
SFD4606	OURSYSX	QURDMP×	OURTYPE	SFOPOOO		

Source file supplied with USE file type only

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

8888844	61100000 F1					
<u>PROGRAM</u>	SUPPORT F	LES(× - TES	T SUPPORT	SOFTWARE PAG	KAGES USED)	
SFD4607	DURSYSX	DURDMPX	DURTYPX	SFOPOOO		
SFD4608	OURSYSX	OUR DMP*	DURTYPX	SFOPOOD		
SFD4609	OURSYSX	OURDMPX	OURTYPX	SFOPOOO		
SFD460A	OURSYS*	OURDMP ×	OURTYP *	SFOPOOO		
SFD460B	DURSYSX	OURDMPX	DURTYPX	SFOPOOO		
SF046DE	OURSYSX	OURDMPX	SFOPOOO			
SF0460F SF0460G	OURSYS* Oursys*	OURDMPX Ourdmpx	SFOPOOO			_
SF0460H	OURSYS*	OURDMPX	SFOPOOO SFOPOOO			•
SF04601	DURSYSX	OURDMPX	SFOPODO			
SF0460J	OURSPCX	OURSYSX	DURDMPX	SFOPOOO		
SFD460K	DURSPC *	DURSYSX	OURDMP*	SFOPOOO		
SFD460L	OURSPC×	OURSYS*	OURDMPX	SFOPOOO		
SF0460M	DURSPCX	OURSYSX	DURDMPX	SFOPOOD		
SFD460N SFD4600	OURSPC* OURSPC*	OURSYSX	DURDMPX	SFOPOOO		
SFD4804	OURSPCX	OURSYS* Oursys*	OURDMP* OURDMP*	SFOPOOO SFOPOOO	SFD4800	SFD4801
0.01001	SFD4802	SFD4803**	OOKDIN A	3101000	3F J4 600	3F#46U1
SF05200	OURSYS*	DURDMPX	SFOPOOO			
SF05201	DURSYSX	OURDMPX	SFOPOOO			
SF05202	OURSYS*	DURDMPX	SFOPOOO			
SF05203	OURSYS*	DURDMPX	SFOPODO			
SF05204 SF05205	OURSYS* Oursys*	OURDMP* OURDMP*	SFOPODO			
SF05206	OURSYSX	OURDMPX	SFOPOOO SFOPOOO			
SF05207	OURSYS	OURDMPX	SFOPOOO			
SF05208	OURSYS*	DURDMPX	SFOPODO			
SF05209	DURSYS *	DURDMPX	SFOPOOO			
SF0520A	OURSYS*	DURDMP *	SFOPODO			
SF0520B	DURSYSX	OURDMPX	SFOPOOO			
SFD520C SFD520D	OURSYSX	DURDMPX	DURTYPX	SFOPCOO		
SFD520E	OURSYS* Oursys*	OURDMP* OURDMP*	OURTYPX OURTYPX	SFOPOOO SFOPOOO		
SFD520F	DURSYSX	OURDMPX	OURTYPE	SFOPOOD		
SFD520G	DURSYSX	OURDMPX	OURTYPX	SFOPOOO		
SFD520H	DURSYSX	OURDMPX	OURTYPX	SFOPDOO		
SFD520I	DURSYSX	OURDMPX	QURTYP ×	SFOPOOO		
SFD520J	DURSYSX	OURDMPX	OURTYPX	SF0P000		
SF0520M SFD520N	DURSPC* OURSPC*	OURSYS* OURSYS*	OURDMP*	SFOPOOO SFOPOOO		
SF05200	OURSPCX	OURSYS*	OURDMPX	SFOPOOO		
SFD520P	OURSPCX	OURSYSX	OURDMPX	SFOPOOO		
SFD520Q	OURSPC×	DURSYSX	OURDMPX	SFOPOOO		
SF0520R	OURSPC×	OURSYS *	OURDMPX	SFOPOOO		
SF0520S	OURSPCX	OURSYS	DURDMPX	SFOPOOO		
SF05210 SF05211	DURSYSX	OURDMPX	SFOPOOO			
SF05211	DURSYS* Dursys*	DUR DMP× DUR DMP×	SFOPOOO SFOPOOO			
SF05213	OURSYSX	DURDMPX	SFOPOOD			
SF05214	OURSYS*	OURDMPX	SFOPOOO			
\$F05215	DURSYS* -	DURDMPX	SFOPOOO			
SFD5218	DURSYS*	OUR DMP *	OURTYPX	SFOPOOO		
SFD5219	DURSYSX	OURDMPX	OURTYPX	SFOPOOO		
SFD521A SFD521B	OURSYS* OURSYS*	OURDMP* OURDMP*	OURTYPX OURTYPX	SFOPOOO SFOPOOO		
SFD521C	OURSYSX	OURDMPX	DURTYPE	SFOPDOO		
SFD521D	OURSYSE	OURDMPX	OURTYPE	SFOPDOO		
SFD521E	OURSYSX	DURDMPX	OURTYPE	SFOPOOO		
SFD521F	OURSYSX	OURDMPX	DURTYPX	SFOPOOO		
SF0521H	DURSYSX	DURDMPX	SFOPOOO			
SF05211	OURSYSX	OURDMPX	SFOPOOO			
SF0521J SF0521K	DURSYS	OURDMPX	SFOPOOO			
SFD521K	OURSYS* Ourspc*	DURDMP* Dursys*	SF0P000 Durdmpx	SFDPODO		
SI BJEIR	JUNJI'UN	-VK3 3×	TORDITE A	aryr uuu		

Multiple versions of mource file supplied(USE and ADA file types)

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT F	TIFS(W - TF	ST SUPPORT	SOFTHARE PA	CKAGES USED)
						4
SF0521L	DURSPCX	DURSYSX	DURDMPX	SFOPOOO		
SFD521M	DURSPC×	DURSYSX	OURDMPX	SFOPOOO		
SF0521N	OURSPCX	OURSYSX	OURDMPX	SFOPOOO		
SFD5210	OURSPCX	OURSYSX	OURDMPX	SFOPOOO		
SFD521P	OURSPC*	DURSYSX	OURDMPX	SFOPOOO	eras762	*****
SF05304	DURSYSX	DURDMPX	SF05300	SF05301	SF05302	SF05303
REALTAN	SFOPOOO	AHDAMOY	*****	CENETA/	*******	SFOPOOO
SF05308 SF05408	OURSYS* OURSYS*	DURDMP* OURDMP*	SF05305	SF05306 SF05401	SF05307 SF05402	SF05403
3703400	SF05404	SF05405	SF05400 SF05406	SF05407	SFOPOOO	3103403
SF05505	DURSYSX	DURDMPX	SF05501	SF05502	SF05503	SF05504
31 03303	SFOPOOO	OUNDIN A	3103301	3103302	31 03303	3, 03304
SF0550C	OURSYSX	OURDMP ×	SF05506	SF05507	SF05508	SF05509
5. 03300	SF0550A	SF0550B	SFOPOOO	J. 03307	J. 03300	0.43307
SF0550D	DURSYSX	DURDMPX	SFOPOOO			
SF0550E	DURSYSX	OURDMPX	SFOPODO			
SF0550F	OURSYSK	OURDMPX	SFOPOOO			
SF06001	DURSYSX	OURDMPX	SFOPOOO			
SF06009	DURSYSX	DURDMPX	SFOPOOO			
SF06010	DURSYSX	OURDMPX	SFOPOOD			
SF06011	DURSYSX	DURDMPX	SFOPOOO			
SF06022	OURSYSX	OURDMPX	SF06013	SF06014	SF06015	SF06016
	SF06017	SF06018	SF06019	SFOPOOO		
SF06033	OURSYSX	OURDMP ×	SF06023	SF06024	SF06025	SF06026
	SF06027	SF06028	SF06029	SF06030	SF06031	SF06032
	SFOPOOO					
SF06053	OURSYSX	OURDMPX	SF06043	SF06044	SF06045	SF06046
	SF06047	SF06048	SF06049	SF06050	SF06051	SF06052
	SFOPOOO					
SF06069	OURSYS*	OURDMPX	SF06060	SF06061	SF06062	SF06063
	SF06064	SF06065	SF06066	SF06067	SF06068	SFOPOOO
SF06079	OURSYS*	DURDMPX	SF06070	SF06071	SF06072	SF06073
CFA/101	SF06074	SF06075	SF06076	SF06077	SF06078	SFOPODO
SF06101 SF06109	OURSYS	OURDMPX	SF06100 SF06108	SFOPOOO SFOPOOO		
SF06110	OURSYSX	OURDMP* Ourdmp*	SF06108	SFOPOOO		
SF06111	OURSYS* OURSYS*	OURDMPX	SF06108	SFOPOCO		
SF06122	OURSYS	DURDMPX	SF06112	SF06113	SF06114	SF06115
3, 00155	SF06116	SF06117	SF06118	SF06119	SFOPOOO	0.00115
SF06140	OURSYSX	OURDMPX	SF06132	SF06133	SF06134	SF06135
0.00240	SF06136	SF06137	SF06138	SF06139	SFOPOOO	0.0000
SF06150	OURSYS*	OURDMPX	SF06142	SF06143	SF06144	SF06145
0.0000	SF06146	SF06147	SF06148	SF06149	SFOPOOD	
SF06160	OURSYSX	OURDMPX	SF06152	SF06153	SF06154	SF06155
	SF06156	SF06157	SF06158	SF06159	SFOPOOR	
SF06170	DURSYS*	OURDMP *	SF06162	SF06163	SF06164	SF06165
	SF06166	SF06167	SF06168	SF06169	SFOPOOO	
SF06180	DURSYS*	OURDMP#	SF06172	SF06173	SF06174	SF06175
	SF06176	SF06177	SF06178	SF06179	SFOPOOO	
SF06190	OURSYS	OURDMPX	SF06182	\$F06183	SF06184	SF06185
0001100	SF06186	SF06187	SF06188	SF06189	SFOPOOD	000/101
SF06199	BURSPC×	DURSYSX	DURDMPX	\$F06191 \$F06197	SF06192	SF06193
254/101	SF06194	SF06195	SF06196 Ourdmp*	SF0619A	SF06198 SF0619B	SF0P000 SF0619C
SF06191	DURSPCX	DURSYS	SF0619F	SF0619G	SF0619B	
SF0619R	SF0619D OURSPC×	SF0619E Oursys*	OURDMPX	\$F0619J	SF0619K	SF0P000 SF0619L
31 0017K	SF0619M	SF0619N	SF06190	SF06199	SF0619R	SF0P000
SFD6201	OURSYS	BURDMPX	SFOPOOO	J1 99171	2: 44714	31 01 000
SFD6201	DURSYS*	DURDMPX	SFOPOOO			
SFD6210	OURSYS	DURDMPX	SFOPOOO			
SFD6211	DURSYS	OUR DMP*	SFOPODO			
SFD6222	DURSYS	OURDMPX	SFOPOOO	SFD6213	SFD6214	SFD6215
J	SFD6216	SFD6217	SFD6218	SFD6219		
SFD6233	OURSYS*	OURDMPX	SFOPODO	SFD6223	SFD6224	SFD6225
	SFD6226	SFD6227	SFD6228	\$FD6229	SFD6230	SFD6231

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT F	(LES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
	SFD6232	0110011011			0504044	055/0/5
SFD6253	OURSYSX SFD6246	OURDMP× SFD6247	SF0P000 SFD6248	SFD6243 SFD6249	SFD6244 SFD6250	SFD6245 SFD6251
	SFD6252	3100241	3700240	3500247	3100230	31 00231
SFD6269	OURSYS*	OURDMP ×	SFOPOOO	SFD6260	SFD6261	SFD6262
055/030	SFD6263	SFD6264	SFD6265	SFD6266	SFD6267	SFD6268
SFD6279	OURSYS* SFD6273	OURDMP* SFD6274	SFOPOOO SFD6275	SFD6270 SFD6276	SFD6271 SFD6277	SFD6272 SFD6278
SFD6301	DURSYS	DURDMPX	SFOPOOD	SFD6300	3500211	3100216
SFD6309	DURSYS*	OURDMPX	SFOPOOO	SFD6308		
SFD6310	DURSYS *	OURDMPX	SFOPOOO	SFD6308		
SFD6311 SFD6322	OURSYS* OURSYS*	OURDMP* OURDMP*	SFOPOOD	SFD6308	CED/111	CED/ 71/
3570322	SFD6315	SFD6316	SF0P000 SFD6317	SFD6312 SFD6318	SFD6313 SFD6319	SFD6314
SFD6340	OURSYS	OURDMPX	SFOPOOO	SFD6332	SFD6333	SFD6334
	SFD6335	SFD6336	SFD6337	SFD6338	SFD6339	
SFD6350	OURSYSX	DURDMPX	SFOPOOO	SFD6342	SFD6343	SFD6344
SFD6360	SFD6345 Oursys*	SFD6346 OURDMP*	SFD6347 SFOP000	SFD6348 SFD6352	SFD6349 SFD6353	SFD6354
J. 30300	SFD6355	SFD6356	SFD6357	SFD6358	SFD6359	J. 20334
SFD6370	OURSYSX	OURDMPX	SFOPOOO	SFD6362	SFD6363	SFD6364
055/300	SFD6365	SFD6366	SFD6367	SFD6368	SFD6369	
SFD6380	OURSYS* SFD6375	OURDMP* SFD6376	SFOPOOO SFD6377	SFD6372 SFD6378	SFD6373 SFD6379	SFD6374
SFD6390	DURSYS	DURDMPX	SFOPOOO	SFD6376	SFD6383	SFD6384
0. 20070	SFD6385	SFD6386	SFD6387	SFD6388	SFD6389	0. 50004
SF0642B	OURSPCX	DURSYS*	DURDMPX	SF06422	SF06423	SF06424
	SF06425 SF0P000	SF06426	SF06427	SF06428	SF06429	SF0642A
SF06803	OURSYS	DURDMP×	SF06802	SFOPOOO		
SF06807	OURSYS*	OURDMPX	SF06806	SFOPOOO		
SF06809	DURSPCX	OURSYS*	DURDMPX	SF06808	SFOPOOO	
SF0680B	OURSPCX	OURSYSX	DURDMPX	SF068DA	SFOPOOO	
SF0680D SF0680F	DURSPC* Durspc*	OURSYS* Oursys*	OURDMP*	SF0680C SF0680E	SFOPOOO SFOPOOO	
SFD680H	DURSPCX	OURSYS	DURDMPX	SFOPOOD	SFD680G	
SFD680J	OURSPCX	OURSYS*	DURDMPX	SFOPOOO	SFD6801	
SF06811	DURSYSX	OURDMPX	SF06810	SFOPOOO	_	
SF06815 SF06817	OURSYS* OURSYS*	OURDMP* OURDMP*	SF06814 SF06816	SFOPOOO SFOPOOO		
SF06819	DURSYSX	DURDMPX	SF06818	SFOPOOD		
SF06821	DURSYSX	DURDMPX	SF06820	SFOPOOD		
SF06823	DURSPCX	DURSYSX	OURDMPX	SF06822	SFOPOOO	
SF06825 SFN9301	UURSPC* Durspc*	OURSYS* Oursys*	OURDMP* SFN9300	SF06824	SFOPOOO	
SFN9302	DURSPCX	DURSYS	SFN9300			
SFN9303	DURSPCX	DURSYS *	SFN9300			
SF09501	OURSPCX	OURSYS	DURDMPX	SF09500	SFOPODO	
\$F09502 \$F09503	OURSPC* OURSPC*	CURSYS* OURSYS*	DURDMP* DURDMP*	SF09500 SF09500	SFOPODO SFOPODO	
SF09504	OURSPCX	OURSYSX	DURDMPX	SF09500	SFOPOOO	
SF09505	OURSPCX	DURSYS *	DURDMP*	SF09500	SFOPODO	
SF09506	OURSPCX	DURSYSX	OURDMPX	SF09500	SFOPOOD	
SF09507 SF09508	OURSPC* OURSPC*	OURSY3× Oursys×	OURDMPX OURDMPX	SF09500 SF09500	SFOPODO SFOPODO	
SF09509	DURSPCX	DURSYSX	OURDMPX	SF09500	SFOPOOO	
SFN9511	OURSPC	DURSYSX	SFN9510	,,,,,	J. J. 444	
SF09600	DURSPC×	OURSYSK	SFOPOOO			
SF09601	OURSPCX	DURSYSX	SFOPOOD SFOPOOD			
SF09602 SF09603	OURSPC* OURSPC*	DURSYS* Dursys*	SFOPOOD			
SF09604	DURSPC*	DURSYS	SFOPOOO			
SF09605	DURSPCX	OURSYS*	SFOPOOO		•	
SF09606	OURSPCX	OURSYSX	SFOPOOO			
SF09607	DURSPC×	DURSYSX	SFOPOOD			

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT F	LES(X - TE	ST SUPPORT S	SOFTHARE PA	CKAGES USED)	
CENO(11	OURSPC×	DURSYSX				
SFN9611 SFN9612	DURSPC×	DURSYSX	SFN9610			
SFN9613	DURSPCX	OURSYSX	SFN9610			
SF09711	DURSYSX	SF09710	SFOPOOO			
SF09713	OURSYS* OURSPC*	SF09712 Dursys*	SF0P000 OURDMP*	SF09500	SF0P000	
\$F09720 \$F09721	DURSPCX	DURSYSX	DURDMPX	SF09500	SFOPOOO	
SF09731	OURSPC×	DURSYS*	OURDMPX	SF09500	SF0P000	•
SF09901	OURSYS*	SF09900	SFOPOOO			
SF09902'	DURSYSX	SF09900	SFOPOOO			
SF09903	OURSYS* Durspc*	SF09900 Dursys×	SF0P000 SFM9A00			
SFM9A01 SFM9A02	OURSPCX	OURSYS	SFM9A00			
SFM9A03	DURSPC*	OURSYS*	SFM9A00			
SF09B01	DURSPC *	DURSYSX	OURDMPX	SF09500	SFOPOOO	
SFD9C00	OURSPCX	OURSYS* OURSYS*	SFOPODO SFOPODO	SFD9000 SFD9000	SFD9200	
SFD9C01 SFD9C02	DURSPC* Durspc*	DURSYSX	SFOPOOO	SFD9000	SFD9200 SFD9200	
\$FD9C03##	DURSPC×	DURSYSX	SFOPOOD	SFD9000	SFD9200	
\$FD9C03** \$FD9C04**	DURSPC×	OURSYSX	SFOPOOO	SFD9000	SFD9200	
SFMB001	DURSYS	SFMB000 SFMB002				
SFMB003 SFMB005	OURSYS* Dursys*	SFMB004				
SFMB007	OURSYS	SFMB006				
SFMB009	DURSYS *	SFMB008				
SFMB012	DURSYS	SFMB010	SFMB011	SFMB015		
SFMB016	OURSYS* OURSYS*	SFMB013 SFMB017	SFMB014 SFMB018	SFMB019		
SFMB020 SFMB024	OURSYS	SFMB021	SFMB022	SFMB023		
SFMB028	OURSYS*	SFMB025	SFMB026	SFMB027		
SFMB032	OURSYSX	SFMB013	SFMB014	SFMB015 SFMB035		
SFMB036 SFMB040	OURSYS* OURSYS*	SFMB033 SFMB037	SFMB034 SFMB038	SFMB039		
SFMB044	DURSYS	SFMB041	SFMB042	SFMB043		
SF0C301	OURSYSX	OURDMP *	SF0C100	SFOC101	SF0C300	SFOPOOO SFOPOOO
SF0C302	DURSYSX	OURDMPX	SFOC100 SFOC102	SFOC101 SFOC103	SF0C300 SF0C303	SFOPOOO
SFOC304 SFOC305	OURSYS* OURSYS*	OURDMP*	SF0C102	SFOPOOD	5 . 00000	0. 0. 000
SFOC306	DURSYSX	OURDMPX	SFOC102	SFOPOOO		
SF0C307	OURSYS*	OURDMPX	SFOC102	SFOPOOO	erbel at	SFDC310
SFDC311	OURSYSX	OURDMPX	SFOPOOO SFOPOOO	SFDC104 SFDC106	SFDC105 SFDC107**	SFDC313
SFDC314 SFDD600	OURSYS* OURSPC*	OURDMP* OURSYS*	SFOPOOO	3120100	ALEXA	0.0000
SFDD601	DURSPC×	OURSYSX	SFOPOOO			
SFDD602	OURSPC#	OURSYSX	SFOPOOO			
SFDD603	DURSPC×	DURSYSK	SFOPOOO SFOPDOD			
SFDD604	OURSPC# OURSPC#	OURSYS* OURSYS*	SFOPOOD			
SFDD605 SFDD606	OURSPCX	OURSYSX	SFOPDOD			
SFDD607	OURSPC*	OURSYS *	SFOPOOO			
SFDD608\$	DURSPC×	- DURSYS*	SFOPOOO SFOPOOO			
SFDD609	OURSPC* OURSPC*	OURSYS* Oursys*	SFOPOOO			
SFDD610 SFDD611	DURSPC*	DURSYS	SFOPOOO			
SF0D720	OURSYS					
SF0D721	DURSYSX	A				
SFDD722	OURSYS* OURSYS*	OURTYP* OURTYP*				
SFDD723 SFDD724	QURSYS	DURTYPE				
SFDD725	OURSYSE	OURTYPE				
SFOD727	OURSYS*	ALIASMA M				
SFOD728	OURSPC# OURSPC#	OURSYS* OURSYS*				
SF0D729	UUKSPCX	7077137				

^{##} Multiple versions of source file supplied(USE and ADA file types)
Source file supplied with DEC file type only
Source file supplied with USE file type only

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT F	ILES(× - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
SFD6253	SFD6232 Dursys*	OURDMPX	SFOPOOO	SFD6243	SFD6244	SFD6245
31 20233	SFD6246	SFD6247	SFD6248	SFD6249	SFD6250	SFD6251
SFD6269	SFD6252 OURSYS*	OURDMPX	SFOPOOO	\$FD6260	SFD6261	SFD6262
SFD6279	SFD6263 Dursys*	SFD6264 Durdmpx	SFD6265 SFOP000	SFD6266 SFD6270	SFD6267 SFD6271	SFD6268 SFD6272
	SFD6273	SFD6274	SFD6275	SFD6276	SFD6277	SFD6278
SFD6301 SFD6309	OURSYS* OURSYS*	OURDMP* OURDMP*	SFOPOOO SFOPOOO	SFD6300 SFD6308		
SFD6310	DURSYS ×	OURDMP *	SFOPOOO	SFD6308		
SFD6311 SFD6322	DURSYS* Dursys*	OURDMP* OURDMP*	SFOPDOO SFOPDOO	SFD6308 SFD6312	SFD6313	SFD6314
31 20 322	SFD6315	SFD6316	SFD6317	SFD6318	SFD6313	3170317
SFD6340	DURSYSX	OURDMPX	SFOPOOO	SFD6332	SFD6333	SFD6334
SFD6350	SFD6335 Oursys*	SFD6336 Ourdmpx	SFD6337 SF0P000	SFD6338 SFD6342	SFD6339 SFD6343	SFD6344
	SFD6345	SFD6346	SFD6347	SFD6348	SFD6349	
SFD6360	OURSYS* SFD6355	OURDMPX	SF0P000 SFD6357	SFD6352	SFD6353	SFD6354
SFD6370	DURSYSX	SFD6356 Ourdmpx	SF0P000	SFD6358 SFD6362	SFD6359 SFD6363	SFD6364
	SFD6365	SFD6366	SFD6367	SFD6368	SFD6369	
SFD6380	DURSYSX SFD6375	OURDMP* SFD6376	SF0P000 SFD6377	SFD6372 SFD6378	SFD6373 SFD6379	SFD6374
SFD6390	OURSYSX	DURDMPX	SFOPOOO	SFD6376	SFD6383	SFD6384
650//00	SFD6385	SFD6386	SFD6387	SFD6388	SFD6389	0504404
SF0642B	OURSPCX SF06425	OURSYS* SF06426	OURDMP× SF06427	SF06422 SF06428	SF06423 SF06429	SF06424 SF0642A
	SFOPOOO	5, 50 420	_	31 00 720	31 00 127	51 00 4EK
SF06803	DURSYSX	OURDMPX	SF06802	SFOPOOD		
SF06807 SF06809	DURSYS* Durspc*	OURDMP* Oursys*	SF06806 OURDMP×	SF0P000 SF06808	SFOPOOO	
SF0680B	DURSPC *	DURSYSX	DURDMPX	SF0680A	SFOPOOO	
SF0680D SF0680F	DURSPC* DURSPC*	OURSYS* Oursys*	OURDMP× Ourdmp×	\$F0680C \$F0680E	SFOPOOO SFOPOOO	
SFD680H	DURSPC×	OURSYS	OURDMPX	SFOPDOO	SFD680G	
SFD680J	OURSPC×	OURSYS*	OURDMP *	SFOPOGO	SFD6801	
SF06811 SF06815	OURSYS* Oursys*	OURDMP* OURDMP*	SF06810 SF06814	SFOPOOO SFOPOOO		
SF06817	DURSYS*	OURDMPX	SF06816	SFOPOOO		
SF06819	OURSYSX	OURDMPX	SF06818	SFOPOOD		
SF06821 SF06823	DURSYS* Durspc*	OURDMP* Oursys*	SF06820 Ourdmp*	SF0P000 SF06822	SFOPOOO	
SF06825	DURSPC×	OURSYS*	OURDMPX	SF06824	SFOPODO	
SFN9301 SFN9302	OURSPC* OURSPC*	OURSYS* OURSYS*	<u>SFN9300</u>			
SFN9303	OURSPCX	QURSYS*	<u>SFN9300</u> SFN9300		•	
SF09501	OURSPC×	DURSYS*	DURDMPX	\$F09500	SFOPOOO	
SF09502 SF09503	OURSPC*	OURSYS* Oursys*	OURDMP* OURDMP*	SF09500 SF09500	SFOPOOO SFOPOOO	
SF09504	OURSPCX	QURSYSX	OURDMPX	SF09500	SFOPOOO	
SF09505	OURSPC×	OURSYSX	OURDMPX	SF09500	SFOPOOO	
SF09506 SF09507	OURSPC* OURSPC*	OURSYS* OURSYS*	OURDMP*	SF09500 SF09500	SFOPOOO SFOPOOO	
SF09508	OURSPC×	OURSYSX	DURDMPX	SF09500	SFOPOOO	
SF09509 SFN9511	OURSPC* Durspc*	DURSYS* Dursys*	OURDMPX SFN9510	SF09500	SFOPOOD	
SF09600	OURSPC	OURSYS	SF0P000			
SF09601	DURSPC*	DURSYS	SFOPOOD			
SF09602 SF09603	OURSPC* Ourspc*	OURSYS* OURSYS*	SFOPOOO SFOPOOO			
SF09604	OURSPC	OURSYS	SFOPOOD			
SF09605	OURSPCX	OURSYS*	SFOPOOO		•	
SF09606 SF09607	OURSPC* OURSPC*	OURSYS* Oursys*	SFOPOOO SFOPOOO			
_, _,_,,	3003100	4003130	J. J. VVV			

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

PROGRAM	CHIPPOPT E	ILES(× - TE	ET CHEDADT (CACTUADE DA	CYAGES HISED	,
PROUKAH	SUPPURT P	ILESUX - IE.	SI SUPPURI	SUP I MAKE PA	CKAGES OSED	2
SFDD72A	DURSPC×	DURSYSX				
SFDD72B SFDD72C	OURSPC* OURSPC*	OURSYS* OURSYS*				
SFOD72D	OURSPC×	OURSYSX				
SFDD72E	OURSPCX	DURSYSX				
SFDD72F	DURSPC×	DURSYSX				
SFDD72G SFDD72H	OURSPC* OURSPC*	OURSYS* OURSYS*				
SFDD721	OURSPC×	OURSYS				•
SFDDA01	OURSPC×	DURSYSX	SFOPOOO			
SFDDA02	DURSPCX	OURSYSX	SFOPODO		0505001	
SFDE220	OURSYS* SFDE203	OURDMP* SFDE204	SFOPOOO SFDE205	SFDE000 SFDE206	SFDE201 SFDE207	SFDE202 SFDE208
	SFDE209	SFDE20A	SFDE211	SFDE212	SFDE213	SFDE214
	SFDE215	SFDE216		0. 5555		
SFDE250	OURSYSX	OURDMPX	SFOPOOO	SFDEOOO	SFDE231	SFDE232
	SFDE233 SFDE239	SFDE234 SFDE23A	SFDE235 SFDE241	SFDE236 SFDE242	SFDE237 SFDE243	SFDE238 SFDE244
	SFDE245	SFDE246	3LDES41	3706242	SFULZAS	3175244
SFDE420	OURSYS*	OURDMPX	SFOPOOO	SFDE000	SFDE401	SFDE402
	SFDE403	SFDE404	SFDE405	SFDE406	SFDE407	SFDE408
	SFDE409 SFDE415	SFDE40A SFDE416	SFDE411	SFDE412	SFDE413	SFDE414
SFDE450	OURSYSX	DURDMPX	SFOPODO	SFDEOOO	SFDE431	SFDE432
0.50.50	SFDE433	SFDE434	SFDE435	SFDE436	SFDE437	SFDE438
	SFDE439	SFDE43A	SFDE441	SFDE442	SFDE443	SFDE444
CEREANA	SFDE445	SFDE446	MATHERNY	CEARAGA		
SFDF000 SFDF001	OURSYS* OURSYS*	OURDMP* OURDMP*	MATHFUN× MATHFUN×	SFOPOOO SFOPOOO		
SFDF002	OURSYS	OURDMPX	MATHFUNX	SFOPODO		
SFDF003	OURSYSX	OURDMP *	MATHFUNX	SFOPOOO		
SFDF004	OURSYS	OURDMPX	MATHFUNX	SF0P000		•
SFDF005 SGD0001	OURSYS* OURSYS*	OURDMP* Mathfun*	MATHFUNX SGOPOOO	SFOPOOO SGDOOOO		
SGD0003	OURSYSX	SGOPOOO	SGD0002	300000		
SGD0009	OURSYS*	SGOPOOD	SGD0004	S GD0005	SGD0006	SGD0007
200000	SGD0008	OUDBMRY	600000			
SG0000C SGD000E	OURSYS* Oursys*	DURDMP* Mathfun*	SGOPOOO SGOPOOO	SGD0000	CONNESS	
SGNOOOK	OURSYS	SGNOOOF	SGNOODG	SGNOODH	SGD000D SGN000I	SGNDODJ
SGD0039	OURSPC×	DURSYS	SGOPOOD	SGD0004	\$GD0005	SGD0006
	SGD0007	SGD0008	\$GD0019	SGD0029	000000	
<u>SGD0049</u>	OURSPC× SGD0007	OURSYS* SGD0008	S G0P000 S GD0019	SGD0004 SGD0029	SGD0005	S GD0006
SGD0059##	DURSPCX	OURSYS	SGOPOOO	SGD0004	SGD0005	SGD0006
	SGD0007	SGD0008	SGD0019	SGD0029		302111
SL09101	OURSPC×	OURSYSX	SL09000	SL09100	SLOPOOD	•
SL09111 SL09121	OURSPC* OURSPC*	OURSYS* OURSYS*	SL09000 SL09000	SL09100 SL09100	SLOPOOO Slopooo	
SL09131	OURSPCX	OURSYSX	SL09000	SL09100	SLOPOOO	
SLD9202	DURSPCX	DURSYS *	SL09000	SL09100	SLOPOOD	SLD9200
SLD9203	DURSPC×	DURSYSX	\$ L09000	SL09100	SLOPOOD	<u>SLD9200</u>
SL 09204 **	OURSPC* Durspc*	DURSYSX	SL09000	S109100 S109100	SL0P000 Sl0P000	<u>\$1,09200</u>
<u>51 09212</u> 51 09213	DURSPCX	OURSYS* OURSYS*	SL09000 SL09000	SL09100	SLOPODO	SL 09200 SL 09200
S1 09214**	DURSPCX	DURSYSX	SL09000	SL09100	SLOPOOO	SL D9200
<u>SLD9222</u>	OURSPCX	DURSYS*	SL09000	SL09100	SLOPOOO	SL D9200
<u>51 09223</u>	OURSPC*	DURSYS*	SL09000	SL09100	SLOPOOO	<u>\$1,09200</u>
\$1 09224 **	OURSPC* OURSPC*	OURSYS* OURSYS*	SL09000 SL09000	SL09100 Sl09100	SL0P000 Sl0P000	\$1,09200 \$1,09200
\$1 09232 \$1 09233 \$1 09234	DURSPC*	OURSYS	SL09000.	SL09100	SLOPODO	SL D9200
<u>51 09234</u> 00	DURSPCX	OURSYS	SL09000	SL09100	SLOPODO	\$1,09200
SLDE2C1	OURSPCX	OURSYS	SLOPOOO	SLDEDOO	SLDEZBI	
SL DE 2C2	OURSPC×	DURSYSX	SLOPOOO	SLDEDOO	SLDE2B1	

Source file supplied with DEC file type only

Table G-4. Ada Type S Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT F	ILES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
SLDE2C3##	OURSPC ×	DURSYS *	SLOPOGO	SLDEOOO	SLDE2B1	
SLDE2C4##	DURSPCX	DURSYS *	SLOPOOO	SLDEODO	SLDE2B1 SLDE2B1	
SLDE2C5	DURSPC×	DURSYS*	SLOPOOO	SLDEOOO	SL DE 2B2	
SL DE2C6	OURSPC×	DURSYS*	SLOPODO	SLDEOOO	SLDE2B2 SLDE2B2	
SLDE2C7 SLDE2C8	OURSPC* OURSPC*	OURSYS* OURSYS*	SLOPOOO	SLDEOOO	SLDEZBZ	
SLDE4C1	OURSPCX	OURSYSE	SLOPODO SLOPODO	SLDEOOD	SLDE2B2 SLDE4B1	
SLDE4C2	OURSPCX	OURSYSX	SLOPOOO	SLDE000 SLDE000	SLDE4B1	•
SLDE4C3**	OURSPCX	DURSYSX	SLOPOOD	SLDEOGO	SLDE4B1	
SLDE4C4##	OURSPC *	OURSYSX	SLOPOOO	SLDEDOO	SLDE4B1	
SLDE4C5	DURSPCX	DURSYS*	SLOPOOD	SLDEOOO	SLDE4B2	
SLDE4C6 SLDE4C7**	DURSPCX	OURSYS*	SLOPOOO	SLDEOOO	SLDE4B2	
SLDE4C8	OURSPC* OURSPC*	OURSYS* Oursys*	SLOPOOD SLOPOOD	SL DEODO	SLDE4B2	
S000104	DURSYSX	DURDMPX	S000002	SLDE000 S000102	SIDE4B2 S000103	S00P000
5000109	DURSYSX	OURDMPX	5000001	S000107	S000108	S00P000
5000114	OURSYSX	OURDMP ×	5000001	5000112	5000113	SOOPOOO
S 000204	OURSYSX	OURDMP ×	\$000202	5000203	SOOPOOO	
\$000209 \$000300	OURSYSX	DURDMPX	5000001	S000207	5000208	500P000
\$000305	OURSYS* OURSYS*	S00P000 S00P000				
5000310	OURSYS	S00P000				
5000313	OURSYS*	OURDMPX	S000311	S000312	SOOPOOO	
5000316	OURSYSX	OURDMPX	5000314	5000315	SOOPOOO	
5000319	OURSYSX	OURDMPX	\$000317	5000318	SOOPOOO	
S000322	OURSYSX	OURDMPX	S 000320	\$000321	S00P000	
S000325 S000328	OURSYS* OURSYS*	OURDMP* OURDMP*	S000323 S000326	5000324	S00P000	
5000331	OURSYSX	OURDMPX	S000326 S000329	\$000327 \$000330	S00P000 S00P000	
S 000334	OURSYSX	DURDMPX	5000332	S000333	SOOPOOO	
\$000337	DURSYSX	OURDMPX	S000335	5000336	SOOPOOO	
S000340	OURSYSX	OURDMPX	<u>5000338</u>	5000339	SOOPOOD	
5000343	DURSYSX	OURDMPX	S000341	5000342	SOOPOOO	
S0D0346 S000350	OURSYS* Oursys*	OURDMP* OURDMP*	MATHFUNX	SOOPOOO	S0D0344	S0D0345
S000353	OURSYSE	OURDMPX	S 000347 S 000347	S000348 S000351	\$000349 \$000352	S00P000 S00P000
5000356	OURSYSX	OURDMPX	S000354	5000355	S00P000	3001000
S000359	OURSYS *	OURDMPX	5000357	5000358	SOOPOOO	
5000362	DURSYS *	OURDMP ×	\$000360	5000361	500P000	
S000365 S000368	OURSPCX	OURSYSX	OURDMPX	5000363	S000364	SOOPOOO
S00036B	OURSPC* OURSPC*	OURSYS* Oursys*	OURDMP* OURDMP*	S000366 S000369	\$000367	\$00P000
SOD036E	OURSPCK	OURSYSX	OURDMPX	S000369 S00P000	S00036A S0D036C	500P000 50D036D
S00036H	OURSPCX	OURSYSX	OURDMPX	\$00036F	S00036G	SOOPOOO
S00036K	DURSPC×	DURSYS ×	OURDMP ×	5000361	S00036J	SOOPOOO
500036N	OURSPC×	DURSYSX	DURDMPX	500036L	S00036M	S00P000
SODO36Q SODO36T	OURSPC* OURSPC*	OURSYSX	OURDMP* OURDMP*	SOOPOOO	S0D0360	SOD036P
S00036H	OURSPC	OURSYS* OURSYS*	DURDMPX	SD0P000 SD0036U	S0D036R S0a036V	SOD036S SOOP000
SOD036Z	OURSYS	DURDMPX	OURTYPE	S00P000	S00036X	SOD036Y
SOD0373	OURSPC×	OURSYSX	DURDMPX	SOOPOOO	S0D0370	S0D0371
	S0D0372					•••••
5000378	OURSYS*	OURDMPX	50 00374	3 000375	S000376	S 000377
S0D0383	SOOPOOO	ALIBEVEY	GUDBMBY	C000774		
2000303	OURSPCX SOD0381	OURSYS* SOD0382	OURDMPX	5000374	S00P000	S0D0380
5000391	OURSYSX	DURDMPX	5000390	SOOPOOO		
5000404	OURSYSX	OURDMP*	5000402	5000403	SOOPOOO	
\$000500	DURSYSX	SOOPOOO				
5000504	OURSYSX	DURDMPX	\$000502	\$000503	500P000	
S000509	DURSYSX	OURDMPX	\$000507	5000508	SOOPOOO	
S000514 S000519	OURSYS* OURSYS*	OURDMP* OURDMP*	\$000512 \$000517	\$000513 \$000518	SOOPOOO	
SOD0525	OURSYS*	OURDMPX	SOOPOOO	S000518	S00P000 S0D0524	
		JU., J		30000	3-50367	

⁹⁸ Source file supplied with DEC file type only

Table G-4. Ada Type S Test Programs and Source Code Files (Concluded)

PROGRAM	SUPPORT F	ILES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
S0D0529	OURSYS*	OURDMPX	SUBPOOD	S0D0526	SOD0527	S0D0528
S 000604	DURSYS*	OURDMP*	S000602	5000603	SOOPOOO	
S000605	OURSYSX	DURDMPX	SOOPDOD			
5000606	OURSYS*	DURDMPX	SOOPOOO			
S000607	OURSYSX	DURDMPX	SOOPOOD			
S000704	DURSYSX	DURDMPX	\$000702	S000703	SOOPOOO	
5000705	DURSYSX	DURDMPX	SOOPOOO	0000700	000.000	
5000708	OURSYSX	DURDMPX	\$000706	S000707	SOOPOOO	•
S000711	DURSYSX	DURDMPX	5000709	5000710	SOOPOOO	
S000713	DURSYSX	DURDMPX	SOOPOOO		500.000	
5000714	DURSYSX	OURDMPX	SOOPOOO			
S000715	DURSYSX	OURDMPX	SOOPOOD			
S000716	DURSYSX	DURDMPX	SOOPOOO			
5000717	DURSYSX	OURDMPX	SDOPODO			
5000718	OURSYSX	OURDMPX	SOOPODD			
5000721	DURSYS	DURDMPX	5000719	\$000720	S00P000	
	000010-	א וויועהטט	3000/17	3000/20	300F000	

Table G-5 Ada Type T test Programs and Source Code Files

PROGRAM	SUPPORT F	ILESCX - TE	ST SUPPORT	SOFTHARE PA	CKAGES USE	<u>n</u>
TA00000	DURSYS*	OURDMP ×	TAOPOGO			
TF03519	OURSYS*	OURDMPX	TF03500	TF03501	TF03502	TF03503
	TF03504	TF03509	TF03510	TF03511	TF03512	TF03513
TF03550	TF03514 OURSPC*	TF03517 OURSYS*	TF03518	TFOPOOO		
TFD3551	DURSPCX	OURSYS	OURDMP* OURDMP*	TFOPOOO TFOPOOO		
TF03620	DURSYSX	OURDMPX	TF03600	TF03601	TF03602	TF03603
	TF03604	TF03605	TF03606	TF03607	TF03608	TF03609
	TF03610	TF03611	TF03612	TF03613	TF03614	TF03615
TF03650	TF03616 Oursys*	TF03617 Ourdmp*	TF03618 TF03630	TF03619	TF0P000 TF03632	7501/77
1103630	TF03634	TF03635	TF03636	TF03631 TF03637	TF03638	7F03633 1F03639
	TF03641	TF03642	TF03643	TF03644	TF03645	TF03646
	TF03647	TF03648	TF03649	TFOPOOO		
TF03704	OURSPCX	OURSYSX	DURDMPX	TF03700	TF03701	TF03702
TF03805	TF03703 Durspc×	TF0P000 DURSYS*	ALIDAMON	TEATERA	*******	750100
1703603	TF03803	TF03804	OURDMP* TF0P000	TF03800	TF03801	TF03802
TF04120	DURSYSX	DURDMPX	TFOPOOO			
TF04121	DURSYS *	OURDMPX	TFOPOOO			
TF04122	OURSYS*	OURDMPX	TF0P000			
TF04123 TF04124	OURSYS*	OURDMPX	TFOPOOO			
TF04124	OURSYS* Oursys*	OURDMP* OURDMP*	TFOPOOO TFOPOOO			
TF04126	OURSYS	DURDMPX	TFOPOOO			
TF04127	DURSYSX	OURDMPX	TFOPOOO			
TFD4128\$	OURSPCX	OURSYSX	OURDMPX	TFOPOOD		
TF04129	DURSYS*	OURDMPX	TF0P000			
TFD412A TF0412B	DURSPCX	DURSYSX	DURDMPX	TFOPOOO		
TFD4126	OURSPC* OURSPC*	OURSYS* OURSYS*	DURDMP* DURDMP*	TFOPOOO TFOPOOO		
TFD412D	OURSPCX	OURSYSX	OURDMPX	TFOPOOD		
TF04130	OURSPCX	OURSYS	DURDMPX	TFOPOOO		
TF04131	DURSPCX	OURSYS*	DURDMP ×	TFOPDOD		
TF04132	OURSPCX	OURSYSX	OURDMPX	TFOPOOO		
TF04133 TFD4135	DURSPC* Durspc*	OURSYS* OURSYS*	OURDMP* OURDMP*	TFOPOOO TFOPOOO		
TFD4136	OURSPCX	OURSYS	DURDMPX	TFOPOOO		
TFD4137	DURSPC	OURSYS	DURDMPX	TFOPOOO		
TFD4138	DURSPC*	DURSYS *	OURDMPX	TF0P000		
TFD4139	DURSPCX	OURSYS	OURDMPX	TFOPOOD		
TFD413A TFD413B	OURSPC* OURSPC*	DURSYS* Dursys*	OURDMP*	TFOPOOO TFOPOOO		
TFD413C	DURSPCX	OURSYS	DURDMPX	TFOPOOO		
TF0413D	DURSPCX	OURSYS	OURDMPX	TFOPOOO		
TFD413E	DURSPC*	OURSYS*	DURDMPX	TFOPOOO		
TFD4136	OURSPC×	DURSYS	OURDMPX	TFOPOOO		
TF0413H TF04131	OURSPC* Ourspc*	DURSYS* Dursys*	OURDMP* OURDMP*	TF0P000 TF0P000	•	
TF04131	DURSPCX	OURSYS	DURDMPX	TFOPOOD		
TF0413K	OURSPCX	OURSYS	OURDMPX	TFOPODO	•	
TF04310	OURSPC ×	OURSYSX	OURDMPX	TF0P000		
TF04311	OURSPCX	OURSYS*	OURDMPX	TFOPOOO		
TF04312	DURSPCX	OURSYSX	OURDMPX	TFOPOOO		
TF04510 TF04511	OURSYS* Oursys*	OURDMPX OURDMPX	TFOPOOO TFOPOOO			
TF04512	DURSYSX	DURDMPX	TFOPOOO			
TF04513	DURSYS	DURDMPX	TFOPOOD			
TF04514	DURSYSX	DURDMP ×	TF0P000			
TF04515	OURSYS	DURDMPX	TFOPOOO			
TF04516 TF04517	DURSYS	OURDMPX	TFOPOOO TFOPOOO			
TF04517	OURSYS* Dursys*	OURDMP* OURDMP*	TF04518	TF04519	TF0451A	TF0451B
	TF0451C	TF0451D	TF0451E	TF0451F	TF04516	TF0451H
	TF04511	TFOPOOD				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

^{*} Source file supplied with USE file type only

Table G-5 Ada Type T test Programs and Source Code Files (continued)

PROGRAM	SUPPORT F	ILES(X - TE	ST SUPPORT	SOFTWARE PA	CKAGES USED	<u>u</u>
TFD451U\$	OURSYS* TFD451M TFD451S	OURDMP* . TFD451N	OURTYPX TFD4510	TF0P000 TFD451P	TFD451K TFD451Q	TFD451L TFD451R
TF0451Z	OURSYS* TFOPOOO	OURDMPX	TF0451V	TF0451H	TF0451X	TF0451Y
TF04520	OURSYS*	OURDMP*	TF0P000			
TF04521	OURSYSX	OURDMPX	TF0P000			
TF04522	OURSYSX	OURDMPX	TFOPOOO			•
TFD4523	OURSYSX	OURDMPX	OURTYPX	TFOPOOO		
TFD4524	OURSYSX	QURDMP *	OURTYPX	TF0P000		
TFD4525	OURSYSX	OURDMPX	DURTYPX	TFOPOOO		
TFD4526	OURSYS*	DURDMPX	OURTYPX	TFDP000		
TF04527	OURSYSX	OURDMPX	TF0P000			
TFD4528	DURSPCX	OURSYS*	DURDMPX	TFOPOOO		
TF04529	OURSYSX	OURDMPX	TF0P000			
TFD452A	OURSPC×	OURSYS*	DURDMP*	TFOPOOO		
TF04530 TF04531	OURSYSX	DURDMPX	TFOPOOO			
TF04532	OURSYS* Oursys*	DURDMP* DURDMP*	TFOPOOO TFOPOOO			
TF04533	DURSYSX	OURDMPX	TFOPOOD			
TF04534	OURSYS*	DURDMPK	TFOPOOO			
TF04535	OURSYSX	DURDMPX	TFOPOOO			
TF04536	OURSYSX	DURDMPX	TFOPOOO			
TF04537	DURSYSX	DURDMP	TFOPDOO			
TF04538	DURSYSX	DURDMPX	TFOPDOD			
TF04539	OURSYS*	DURDMPX	TFOPOOD			
TF0453A	DURSYSX	DURDMPX	TF0P000			
TF0453B	OURSYS*	OURDMP *	TF0P000			
TF0453C	DURSYS *	OURDMP*	TFOPOOO			
TF04540	OURSYS*	DURDMPX	TFOPOOO			
TF04541	DURSYSX	DURDMPX	TFOPOOO			
TF04550	DURSYSX	OURDMPX	TFOPOOO			
TF04551 TF04552	OURSYS* OURSYS*	OURDMP* OURDMP*	TF0P000 TF0P000			
TF04553	OURSYS	OURDMPX	TFOPOOD			
TF04554	DURSYSX	DURDMPX	TFOPOOD			•
TF04555	DURSYSX	OURDMPX	TFOPOOO			
TF04556	OURSYSX	DURDMPX	TFOPODO			
TF04557	OURSYSX	OURDMPX	TFOPOOO			
TF04558	OURSYS *	OURDMP×	TFOPOOO			
TF04559	OURSYS*	OURDMPX	TF0P000			
TFD455D	DURSYS*	DURDMP ×	DURTYPX	TFOPOOD		
TFD455E	OURSYSX	DURDMPX	DURTYPX	TFOPOOD		
TFD455F	OURSYSX	OURDMP*	OURTYPE	TF0P000 TF0P000		
TFD455G TFD4551	OURSYS* OURSYS*	OURDMPX	OURTYP* Ourtyp*	TFOPDOO		
TFD455J	OURSYSX	DURDMPK	OURTYPE	TFOPOOO		
TFD455K	OURSYS	DURDMPX	DURTYPX	TFOPOOO		
TFD455L	OURSYSX	OUR DMP*	DURTYPX	TFOPOOO	•	
TF0455N	DURSYSX	DURDMP ×	TFOPOOO			
TF04550	OURSYSX	DURDMPX	TFOPOOO			
TF04560	OURSYSX	DURDMP *	TFOPOOO			
TF04562	DURSYS *	DUR DMP ×	TF0P000			
TF04563	OURSYS*	OURDMPX	TF0PD00			
TFD4566	DURSYSX	OURDMPX	DURTYPX	TFOPOOO		
TFD4567	OURSYS	DURDMPX	OURTYPX	TFOPOOO		
TFD4568	OURSYSX	DURDMPX	OURTYPX	TFOPOOO TFOPOOO		
TFD4569	OURSYS	OURDMP	OURTYP* TF0P000	1107000		
TF04600 TF04601	OURSYS* Oursys*	DURDMP* OURDMP*	TFOPOOO			
TF04602	OURSYS*	DURDMPK	TFOPODO			
TFD4603	OURSYS	DURDMPX	OURTYPE	TFOPOOO		
TFD4604	OURSYS	DURDMPX	DURTYPE	TFOPOOO		
TFD4605	OURSYS	OURDMPX	DURTYPX	TFDP000		
TFD4606	OURSYSX	OUR DMP*	OURTYPE	TFOPOOO		
			• • •	*		

[#] Source file supplied with USE file type only

Table G-5 Ada Type T test Programs and Source Code Files (continued)

TFD4607	PROGRAM	SUPPORT F	ILES(× - TES	I SUPPORT	SOFTHARE PA	CKAGES USED	2
TFD4608	TFD4607	OURSYS*	OURDMPX	OURTYPE	TFOPOOO		
TFD640A			OURDMPX				
TFD460B							
TF0460E							
TF0460F					TFOPODO		
TF0460B	TENGKNE						
TF0460H	TENAKOG						
TF04601							
TFD460K	TF0460I		DURDMPX				
TFD460 OURSPCK OURSYSK OURDPK TF0P000 TF0460 OURSPCK OURSYSK OURDPK TF0P000 TF0460 OURSPCK OURSYSK OURDPK TF0P000 TF0480 TF0480 OURSYSK OURDPK TF0P000 TF0480 TF0480 TF0480 TF0480 TF0480 TF0480 TF0480 TF0480 TF0480 TF05200 OURSYSK OURDPK TF0P000 TF0480 TF05200 OURSYSK OURDPK TF0P000 TF05202 OURSYSK OURDPK TF0P000 TF05202 OURSYSK OURDPK TF0P000 TF05204 OURSYSK OURDPK TF0P000 TF05204 OURSYSK OURDPK TF0P000 TF05206 OURSYSK OURDPK TF0P000 TF05206 OURSYSK OURDPK TF0P000 TF05208 OURSYSK OURDPK TF0P000 TF05208 OURSYSK OURDPK TF0P000 TF05208 OURSYSK OURDPK TF0P000 TF05208 OURSYSK OURDPK TF0P000 TF05200 OURSYSK OURDPK OURTYPK TF0P000 TF05200 OURSYSK OURDPK OURTYPK TF0P000 TF05200 OURSYSK OURDPK OURTYPK TF0P000 OURSYSK OURDPK OURSYSK OUR							
TF0460M							
TFD460N							
TFD4600							
TFD4804							
TFD4802 TFD4803**	TFD4804					TFD4800	TFD4801
TFO5201			TFD4803**				
TF05202 OURSYSX OURDMPX TF0P000 TF05203 OURSYSX OURDMPX TF0P000 TF05204 OURSYSX OURDMPX TF0P000 TF05205 OURSYSX OURDMPX TF0P000 TF05206 OURSYSX OURDMPX TF0P000 TF05206 OURSYSX OURDMPX TF0P000 TF05207 OURSYSX OURDMPX TF0P000 TF05208 OURSYSX OURDMPX TF0P000 TF05208 OURSYSX OURDMPX TF0P000 TF05200 OURSYSX OURDMPX TF0P000 TF05200 OURSYSX OURDMPX TF0P000 TF05200 OURSYSX OURDMPX OURTYPX TF0P000 TF05200 OURSYSX OURDMPX OURTYPX TF0P000 TF05200 OURSYSX OURDMPX OURTYPX TF0P000 TF05201 OURSYSX OURDMPX OURTYPX TF0P000 TF05202 OURSYSX OURDMPX OURTYPX TF0P000 TF05205 OURSYSX OURDMPX OURTYPX TF0P000 TF05206 OURSYSX OURDMPX OURTYPX TF0P000 TF05201 OURSYSX OURDMPX OURTYPX TF0P000 TF05201 OURSYSX OURDMPX OURTYPX TF0P000 TF05200 OURSYSX OURDMPX OURTYPX TF0P000 TF05201 OURSYSX OURDMPX OURTYPX TF0P000 TF05200 OURSYSX OURDMPX OURTYPX TF0P000 TF05200 OURSYSX OURDMPX OURTYPX TF0P000 TF05200 OURSPCX OURSYSX OURDMPX TF0P000 TF05200 OURSPCX OURSYSX OURDMPX TF0P000 TF05201 OURSPCX OURSYSX OURDMPX TF0P000 TF05201 OURSPCX OURSYSX OURDMPX TF0P000 TF05202 OURSPCX OURSYSX OURDMPX TF0P000 TF05211 OURSYSX OURDMPX TF0P000 TF05212 OURSYSX OURDMPX TF0P000 TF05213 OURSYSX OURDMPX TF0P000 TF05214 OURSYSX OURDMPX TF0P000 TF05215 OURSYSX OURDMPX TF0P000 TF05216 OURSYSX OURDMPX TF0P000 TF05217 OURSYSX OURDMPX OURTYPX TF0P000 TF05218 OURSYSX OURDMPX OURTYPX TF0P000 TF05210 OURSYSX OURDMPX OURTYPX TF0P000 TF05211 OURSYSX OURDMPX OURTYPX TF0P000 TF05212 OURSYSX OURDMPX OURTYPX TF0P000 TF05213 OURSYSX OURDMPX OURTYPX TF0P000 TF05214 OURSYSX OURDMPX OURTYPX TF0P000 TF05215 OURSYSX OURDMPX OURTYPX TF0P000 TF05216 OURSYSX OURDMPX OURTYPX TF0P000 TF05217 OURSYSX OURDMPX OURTYPX TF0P000 TF05218 OURSYSX OURDMPX OURTYPX TF0P000 TF05217 OURSYSX OURDMPX OURTYPX TF0P000 TF05218 OURSYSX OURDMPX OURTYPX TF0P000 TF05217 OURSYSX OURDMPX OURTYPX TF0P000 TF05218 OURSYSX OURDMPX OURTYPX TF0P000 TF05211 OURSYSX OURDMPX OURTYPX TF0P000 TF05211 OURSYSX OURDMPX OURTYPX TF0P000							
TF05203							
TF05206	<u> </u>						
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TFD521K OURSPC* OURSYS* OURDMP* TF0P000	TF0521K						
	TFD521K	DURSPC×	OURSYS*	OURDMPX	TFOPOOD		

Multiple versions of source file supplied(USE and ADA file types)

Table G-5 Ada Type T test Programs and Source Code Files (continued)

PROGRAM	SUPPORT	FILES(X - T	EST SUPPORT	SOFTHARE PA	ACKAGES USE	D)
TF0521L	OURSPC×	DURSYS*				
TFD521M	OURSPCX	DURSYSX	OURDMP* Ourdmp*	TFOPOOO TFOPOOO		
TF0521N	DURSPCX	DURSYS	DURDMPX	TFOPOOD		
TFD5210	DURSPC×	DURSYS*	DURDMPX	TFOPOOD		
TFD521P	DURSPC×	DURSYSX	DURDMPX	TFOPOOO		
TF05304	OURSYSX	OURDMP ×	TF05300	TF05301	TF05302	TF05303
	TF0P000			***************************************		
TF05308 TF05408	OURSYSX	DURDMPX	TF05305	TF05306	TF05307	TF0P000
1703408	OURSYSX	OURDMPX	TF05400	TF05401	TF05402	TF05403
TF05505	TF05404 Oursys*	TF05405 OURDMP×	TF05406	TF05407	TFOPOOO	
03303	TFOPOOO	UUKUMPA	TF05501	TF05502	TF05503	TF05504
TF0550C	OURSYS*	DURDMPX	TF05506	TF05507	Tracca	
	TF0550A	TF0550B	TFOPDOD	1703307	TF05508	TF05509
TF0550D	OURSYS*	DURDMPX	TFOPOOD			
TF0550E	DURSYS *	DURDMPX	TFOPDDD			
TF0550F	DURSYSX	DURDMP *	TFOPDDO			
TF06001 TF06009	DURSYS	DURDMPX	TFOPOOD			
TF06010	OURSYSX	OURDMPX	TFOPOOD			
TF06010	OURSYS* Oursys*	OURDMPX	TFOPODO			
TF06022	OURSYSE	OURDMP*	TF0P000 TF06013	750/01/		
	TF06017	TF06018	TF06019	TF06014 TF0P000	TF06015	TF06016
TF06033	OURSYS*	OURDMPX	TF06023	TF06024	TF06025	TF0/03/
	TF06027	TF06028	TF06029	TF06030	TF06023	TF06026 TF06032
	TFOPODO				1100031	1100032
TF06053	OURSYSX	DURDMP×	TF06043	TF06044	TF06045	TF06046
	TF06047	TF06048	TF06049	TF06050	TF06051	TF06052
TF06069	TFOPOOO	0110 0110 111				
1700007	OURSYS* TF06064	OURDMPX	TF06060	TF06061	TF06062	TF06063
TF06079	OURSYS	TF06065 Ourdmpx	TF06066 TF06070	TF06067	TF06068	TFOPOOD
	TF06074	TF06075	TF06076	TF06071 TF06077	TF06072	TF06073
TF06101	OURSYSX	DURDMPX	TF06100	TFOPOOO	TF06078	TF0P000
TF06109	OURSYS*	DURDMPX	TF06108	TFOPDOO		
TF06110	OURSYSX	DURDMPX	TF06108	TFOPOOD		
TF06111	OURSYS	DURDMPX	TF06108	TFOPOOO		
TF06122	OURSYSX	DURDMPX	TF06112	TF06113	TF06114	TF06115
TF06140	TF06116 Oursys*	TF06117	TF06118	TF06119	TFOPOOO	
1100140	TF06136	OURDMP* TF06137	TF06132 TF06138	TF06133	TF06134	TF06135
TF06150	OURSYS	OURDMPX	TF06142	TF06139 TF06143	TFOPOOO	250/1/5
	TF06146	TF06147	TF06148	TF06143	TF06144 TF0P000	TF06145
TF06160	DURSYS*	DURDMP*	TF06152	TF06153	TF06154	TF06155
	TF06156	TF06157	TF06158	TF06159	TFOPOOO	11.00133
TF06170	DURSYSX	OURDMP ×	TF06162	TF06163	TF06164	TF06165
TF06180	TF06166	TF06167	TF06168	TF06169	TFOPOOO	
110190	DURSYSX	OURDMPX	TF06172	TF06173	TF06174	TF06175
TF06190	TF06176 DURSYSX	TF06177 Durdmpx	TF06178	TF06179	TFOPDOO	
11 00270	TF06186	TF06187	TF06182 TF06188	TF06183	TF06184	TF06185
TF06199	DURSPC*	DURSYS*	DURDMPX	TF06189 TF06191	TF0P000 TF06192	700/107
	TF06194	TF06195	TF06196	TF06197	TF06198	TF06193 TF0P000
TF0619I	OURSPCX	OURSYSX	DURDMPX	TF0619A	TF0619B	TF0619C
	TF0619D	TF0619E	TF0619F	TF0619G	TF0619H	TEOPOOD
TF0619R	OURSPC	DURSYS *	DURDMPX	TF0619J	TF0619K	TF0619L
TER/ 241	TF0619M	TF0619N	TF06190	TF0619P	TF06199	TFOPOOD
TFD6201	OURSYSX	OURDMPX	TFOPOOO			- · ·
TFD6209 TFD6210	OURSYS* Oursys*	OURDMP* DURDMP*	TFOPOOO			
TFD6211	OURSYS	DURDMPX	TFOPOOO TFOPOOO			
TFD6222	OURSYS	OURDMPX	TFOPOOO	TFD6213	TER/81/	TPD(0) -
	TFD6216	TFD6217	TFD6218	TFD6213	TFD6214	TFD6215
TFD6233	DURSYS*	OURDMPX	TFOPOOD	TFD6223	TFD6224	TFD6225
	TFD6226	TFD6227	TFD6228	TFD6229	TFD6230	TFD6231
						20231

Table G-5 Ada Type T test Programs and Source Code Files (continued)

PROGRAM	SUPPORT_F	ILES(× - TE	St_Support	SOFTWARE PA	CKAGES USED	1
750/057	TFD6232	DURDMPX	TF0P000	TFD6243	TFD6244	TFD6245
TFD6253	DURSYS* TFD6246	TFD6247	TFD6248	TFD6249	TFD6250	TFD6251
	TFD6252	***************************************				TED (0 (0
TFD6269	DURSYS *	DURDMPX	TFOPOOO	TFD6260	TFD6261	TFD6262 TFD6268
	TFD6263	TFD6264	TFD6265 TFOP000	TFD6266 TFD6270	TFD6267 TFD6271	TFD6272
TFD6279	OURSYS* TFD6273	OURDMP× TFD6274	TFD6275	TFD6276	TFD6277	TFD6278
TFD6301	OURSYS	DURDMPX	TFOPOOO	TFD6300		
TFD6309	OURSYS *	OURDMP *	TFOPOOD	TFD6308		
TFD6310	OURSYSX	OURDMPX	TFOPOOO	TFD6308		
TFD6311	OURSYS* OURSYS*	OURDMP* OURDMP*	TF0P000 TF0P000	TFD6308 TFD6312	TFD6313	TFD6314
TFD6322	TFD6315	TFD6316	TFD6317	TFD6318	TFD6319	*******
TFD6340	OURSYS*	OURDMP *	TFOPOOO	TFD6332	TFD6333	TFD6334
	TFD6335	TFD6336	TFD6337	TFD6338	TFD6339	TFD6344
TFD6350	OURSYS	OURDMPX	TF0P000 TFD6347	TFD6342 TFD6348	TFD6343 TFD6349	1700344
TFD6360	TFD6345 OURSYS*	TFD6346 Durdmp*	TFOPOOO	TFD6352	TFD6353	TFD6354
1100300	TFD6355	TFD6356	TFD6357	TFD6358	TFD6359	
TFD6370	OURSYSX	OURDMPX	TFOPOOO	TFD6362	TFD6363	TFD6364
	TFD6365	TFD6366	TFD6367	TFD6368	TFD6369 TFD6373	TFD6374
TFD6380	DURSYSX	OURDMP× TFD6376	TF0P000 TFD6377	TFD6372 TFD6378	TFD6373	1100374
TFD6390	TFD6375 OURSYS×	DURDMPX	TFOPOOO	TFD6382	TFD6383	TFD6384
1700370	TFD6385	TFD6386	TFD6387	TFD6388	TFD6389	
TF0642B	OURSPC *	DURSYSX	OURDMPX	TF06422	TF06423	TF06424
	TF06425	TF06426	TF06427	TF06428	TF06429	TF0642A
TF06803	TF0P000 OURSYS*	OURDMPX	TF06802	TF0P000		
TF06807	OURSYS	DURDMPX	TF06806	TFOPOOO		
TF06809	DURSPCX	DURSYS *	OURDMP *	TF06808	TF0P000	
TF0680B	DURSPCX	OURSYS	DURDMPX	TF0680A	TFOPOOO TFOPOOO	•
TF0680D	OURSPC* OURSPC*	OURSYS* OURSYS*	QURDMP* Qurdmp*	TF0680C TF0680E	TFOPOOO	
TF0680F TFD680H	OURSPCX	OURSYS	DURDMPX	TFOPDOO	TFD680G	
TFD680J	OURSPC *	DURSYSX	OURDMPX	TFOPOOO	<u>TFD6801</u>	
TF06811	OURSYSX	OURDMPX	TF06810	TFOPOOO TFOPOOO		
TF06815	OURSYS* Oursys*	OURDMP# OURDMP#	TF06814 TF06816	TFOPOOO		
TF06817 TF06819	DURSYS	OURDMPX	TF06818	TFOPOOO		
TF06821	DURSYS	OURDMPX	TF06820	TFOPODO		
TF06823	DURSPCK	OURSY5*	OURDMPX	TF06822	TFOPOOO	
TF06825	OURSPC×	OURSYS* OURSYS*	OURDMP* <u>TFN9300</u>	TF06824	TFOPOOO	
<u>TFN9301</u> TFN9302	OURSPC× OURSPC×	DURSYS	1FN9300			
TFN9303	DURSPCX	OURSYSE	TFN9300			
TF09501	OURSPC *	DURSYSX	DURDMPX	TF09500	TFOPOOO	
TF09502	OURSPC×	DURSYS	DURDMPX	TF09500 TF09500	TF0P000 TF0P000	
TF09503	OURSPC× OURSPC×	DURSYS* Dursys*	OURDMP* CURDMP*	TF09500	TFOPODO	
TF09504 TF09505	OURSPCX	OURSYS	DURDMPX	TF09500	TFOPOOO	
TF09506	DURSPC×	DURSYS *	OURDMPX	TF09500	TFOPOOD	
TF09507	OURSPCX	OURSYS	OURDMPX	TF09500	TFOPOOO TFOPOOO	
TF09508	OURSPC* OURSPC*	DURSYS≭ Dursys≭	OURDMP* OURDMP*	TF09500 TF09500	TFOPOOD	
TF09509 TFN9511	DURSPC	DURSYS	TFN9510	1107200	,, ,, ,,	
TF09600	DURSPC	OURSYS	TFOPOOD			
TF09601	DURSPCX	DURSYS	TFOPOOO			
TF09602	DURSPCX	DURSYS	TFOPDOD			
TF09603	OURSPC* OURSPC*	OURSYS* OURSYS*	TFOPOOO TFOPOOO			
TF09604 TF09605	DURSPC×	DURSYS	TFOPOOO			
TF09606	OURSPC	DURSYSX	TFOPOOO			
TF09607	OURSPC×	OURSYS	TFOPOOO			

Table G-5 Ada Type T test Programs and Source Code Files (continued)

			<u>:</u>			
PROGRAM	SUPPORT	FILES(× - TE	ST SUPPORT	<u>SOFTWARE PA</u>	CKAGES USED)	•
TFN9611	DURSPC×	OURSYS *				
TFN9612	OURSPC×	OURSYS*	<u> TFN9610</u>			
TFN9613 TF09711	OURSPC* OURSYS*	OURSYS* TF09710	TFN9610 TF0P000			
TF09713	OURSYSX	TF09710	TFOPOOO			
TF09720	DURSPCX	OURSYS	OURDMPX	TF09500	TF0P000	
TF09721	DURSPCX	DURSYS*	OURDMPX	TF09500	TFOPOOO	•
TF09731	OURSPCX	OURSYSX	OURDMPX	TF09500	TF0P000	-
TF09901 TF09902	OURSYS* OURSYS*	TF09900 TF09900	TFOPOOO TFOPOOO			
TF09903	OURSYSX	TF09900	TFOPOOO			
TFM9AD1	DURSPC*	DURSYS*	TFM9A00			
TFM9A02	OURSPC *	DURSYS*	TFM9A00			
TFM9A03	DURSPCX	OURSYSX	TFM9A00			
TF09B01 TFD9C00	OURSPC*	OURSYS* Oursys*	OURDMP* TFOPOOO	TF09500 TFD9000	TF0P000	
TFD9C01	DURSPC*	DURSYSX	TFOPOOO	TFD9000	TFD9200	
TFD9C02	OURSPCX	DURSYS *	TF0P000	TFD9000	TFD9200	
TFD9C03	DURSPCX	OURSYSX	TFOPOOO	TFD9000	TFD9200	
TFD9C04** TFMB001	OURSPC* OURSYS*	OURSYS¥ TFMB000	TFOPOOO	TFD9000	TFD9200	
TFMB003	DURSYS	TFMB000				
TFMB005	DURSYSX	TFMB004				
TFMB007	DURSYS*	TFMB006				
TFMB009	OURSYS	TFMB008				
TFMB012 TFMB016	OURSYS* OURSYS*	TFMB010 TFMB013	TFMB011 TFMB014	TFMB015		
TFMB020	OURSYS	TFMB017	TFMBD18	TFMB019		
TFMB024	OURSYS*	TFMB021	TFMB022	TFMB023		
TFMB028	OURSYS*	TFMB025	TFMB026	TFMB027		
TFMB032	DURSYSX	TFMB013	TFMB014	TFMB015		
TFMB036 TFMB040	OURSYS* OURSYS*	TFMB033 TFMB037	TFMB034 TFMB038	TFMB035 TFMB039		
TFMB044	DURSYS	TFMB041	TFMB042	TFMB043		
TF0C301	DURSYS *	DURDMPX	TF0C100	TFOC101	TF0C300	TF0P000
TF0C302	DURSYSX	OURDMPX	TFOC100	TFOC101	TF0C300	TF0P000
TFOC304 TFOC305	OURSYS* OURSYS*	OURDMP* OURDMP*	TFOC102 TFOC102	TFOC103 TFOP000	TF0C303	TF0P000
TF0C306	DURSYSX	DURDMPX	TFOC102	TFOPOOD		
TF0C307	OURSYS*	OURDMPX	TFOC102	TFOPOOD		
TFDC311	OURSYSX	DURDMPX	TFOPODO	TFDC104	TFDC105	TFDC310
TFDC314 TFDD600	OURSYSX	OURDMPX	TFOPODO	TFDC106	TFDC107**	TFDC313
TFDD600	OURSPC* OURSPC*	OURSYS* OURSYS*	TFOPOOO TFOPOOO			
TFDD602	OURSPCX	OURSYS	TFOPOOO			
TFDD603	DURSPC *	DURSYS*	TFOPOOO			
TFDD604	OURSPCX	DURSYSX	TFOPOOD			
TFDD605 TFDD606	DURSPC# DURSPC#	OURSYS*	TFOPOOO TFOPOOO			
TFDD607	OURSPCX	DURSYS	TFOPOOD			
TFDD608\$	DURSPCX	DURSYS *	TFOPOOD			
TFDD609	DURSPCX	DURSYSX	TFOP000			
TFDD610 TFDD611	DURSPC	OURSYSX	TFOPDOO			
TF0D720	OURSPC* -	OURSYS*	TFOPODO			
TF0D721	OURSYS					
TFDD722	DURSYSX	OURTYP ×				
TFDD723	DURSYS*	OURTYPX				
TFDD724 TFDD725	OURSYS*	OURTYP* OURTYP*				
TF0D727	DURSYS	UURIIIX				
TFOD728	DURSPCX	DURSYS *				
TFOD729	DURSPC ×	DURSYS *				

^{##} Multiple versions of source file supplied(USE and ADA file types)
Source file supplied with DEC file type only
Source file supplied with USE file type only

Table G-5 Ada Type T test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LES(X - TES	T SUPPORT S	OFTHARE PAG	KAGES USED	2
TFDD72A	OURSPC ×	OURSYS*				
TFDD72B	DURSPC×	DURSYS *				
TFDD72C	OURSPCX	OURSYSX				
TFOD72D	OURSPC*	DURSYS				
TFDD72E	OURSPC* OURSPC*	OURSYS* Oursys*				
TFDD72F TFDD72G	DURSPCX	DURSYSX				
TFDD72H	OURSPCX	DURSYSX				•
TFDD72I	DURSPC×	OURSYS*				
TFDDA01	OURSPC×	OURSYS *	TFOPOOO			
TFDDA02	OURSPCX	OURSYSX	TFOPOOO	7775000	7555301	TFDE202
TFDE220	DURSYSX	OURDMPX	TFOPDOO	TFDECOO TFDE206	TFDE201 TFDE207	TFDE208
	TFDE203 TFDE209	TFDE204 TFDE20A	TFDE205 TFDE211	TFDE212	TFDE2)3	TFDE214
	TFDE215	TFDE216	" DELLI	11.00010		*******
TFDE250	OURSYS	DURDMPX	TF0P000	TFDE000	TFDE231	TFDE232
11 02230	TFDE233	TFDE234	TFDE235	TFDE236	TFDE237	TFDE238
	TFDE239	TFDE23A	TFDE241	TFDE242	TFDE243	TFDE244
	TFDE245	TFDE246	T	TEREAGA	TENESOL	TFDE402
TFDE420	OURSYSX	OURDMPX	TFOPOOO	TFDE000 TFDE406	TFDE401 TFDE407	TFDE408
	TFDE403 TFDE409	TFDE404 TFDE40A	TFDE405 TFDE411	TFDE412	TFDE413	TFDE414
	TFDE415	TFDE416	ITDLATE	11 25-425	11.00.100	***************************************
TFDE450	OURSYS*	OURDMPX	TFOPDOO	TFDE000	TFDE431	TFDE432
	TFDE433	TFDE434	TFDE435	TFDE436	TFDE437	TFDE438
	TFDE439	TFDE43A	TFDE441	TFDE442	TFDE443	TFDE444
	TFDE445	TFDE446	MATUPHNY	TEADAGA		
TFDF000	OURSYSX	OURDMP* OURDMP*	MATHFUNX MATHFUNX	TFOPOOO TFOPOOO		
TFDF001 TFDF002	OURSYS* OURSYS*	OURDMPX	MATHFUNE	TFOPOOO		
TFDF002	OURSYSX	OURDMPX	MATHFUNX	TFOPOOO		
TFDF004	DURSYS*	DURDMPX	MATHFUNX	TFOPODO		
TFDF005	OURSYSX	DURDMPX	MATHFUNK	TF0P000		
TGD0001	DURSYS*	MATHFUNX	TGOPOOO	TGDOOOD		
TGD0003	DURSYSX	TGOPOOO	TGD0002	TGD0005	TGD0006	TGD0007
TGD0009	OURSYS* TGD0008	TGOPOOO	1GD0004	1000003	100000	102000
TGDDDOC	OURSYS	OURDMPX	TGOPODO			
TGDOODE	OURSYS	MATHFUNX	TGOPOOO	TGDOOOD	TGD000D	
TGNOOOK	DURSYSX	IGNOODE	TGNDOOG	TGNOOOH	TGNOODI	TONODOJ
TGD0039	DURSPCX	DURSYS	TGOPOOO	IGD0004	TGD0005	TGD0006
202040	TGD0007	TGD0008	TGD0019 TG0P000	1600029 1600004	TGD0005	TGD0006
<u> 1GD0049</u>	OURSPC¥ TGD0007	OURSYS* TGD0008	TGD0019	1GD0029	100000	.02000
TGD0059##	DURSPCX	DURSYSX	TGOPOOO	TGD0004	TGD0005	TGD0006
TANANAL	TGD0007	TGD0008	TGD0019	TGD0029		
TL09101	OURSPCX	DURSYSX	TL09000	TL09100	TLOPDDD	
TL09111	DURSPCX	OURSYS	TL09000	TL09100	TL o pooo Tl o pooo	
TL09121	DURSPC×	OURSYSX	TL09000 TL09000	TL09100 TL09100	TLOPOOD	
TL09131	OURSPC* Ourspc*	OURSYS* OURSYS*	TL09000	TL09100	TLOPOOD	TL D9200
TLD9202 TLD9203	OURSPC*	OURSYSX	7109000	TL09100	TLOPODO	TLD9200 TLD9200
TLD9204 **	DURSPCX	OURSYSX	TL09000	TL09100	TLOPODO	TLD9200
TLD9212	DURSPCX	OURSYSX	TL09000	TL09100	TLOPOOD	11 09200
TLD9213	DURSPCX	DURSYSX	TL09000	TL09100	TLOPOOD	TL 09200 TL 09200
TLD9214##	OURSPCX	DURSYSX	TL09000	TL09100 TL09100	TLOPOOO Tlopooo	11 D9200
TLD9222 TLD9223	OURSPCX	OURSYS* Dursys*	TL09000 TL09000	TL09100	TLOPODO	1109200
11 09224	OURSPC* Ourspc*	DURSYSX	TL09000	TL09100	TLOPOOO	TLD9200
11 19232	OURSPCX	OURSYS	TL09000	TL09100	TLOPODO	TLD9200
TLD9233	DURSPCX	OURSYSX	TL09000	TL09100	TLOPODO	TL 09200
11 09232 11 09233 11 09234	DURSPC *	DURSYS	TL09000	TL09100	TLOPOGO	11.09200
TLDEZC1	DURSPCX	OURSYS	TLOPODO	TLDE000	TLDE2B1	
TLDE2C2	DURSPC×	DURSYS	TT Ob OOO	TLDE000	Traces	

\$8 Source file supplied with DEC file type only

Table G-5 Ada Type T test Programs and Source Code Files (continued)

PROGRAM	SUPPORT	FILES(X - TE	ST SUPPORT	SOFTWARE PA	CKAGES USED	2
TLDE2C3**	OURSPCX	OURSYS *	TL OPOOO	TLDEOOO	ILDE2B1	
TLDE2C4	DURSPCX	DURSYS*	TL OPOOD	TL DE000	TLDE2B1	
TLDE2C5 TLDE2C6	DURSPC*	DURSYS* Dursys*	TL0P000 Tl0P000	TLDE000 TLDE000	TLDE2B2 TLDE2B2	
TLDEZCZ **	OURSPC	DURSYS*	TLOPOOD	TLDEOOO	TI DE2B2	
TLDE2C8	OURSPCX	OURSYS*	TLOPOOO	TLDE000	TLDE2B2	
TLDE4C1	DURSPC*	OURSYSX	TLOPODO	TLDE000	ILDE4B1	
TLDE4C2 TLDE4C3	OURSPC*	DURSYS* Dursys*	TL0P000 TL0P000	TLDE000 TlDE000	TLDE4B1 TLDE4B1	-
ILDE4C4	OURSPC	OURSYS	TLOPOOO	TLDEOOO	TLDE4B1	
TLDE4C5	DURSPCX	DURSYSX	TLOPODO	TLDEOOO	TLDE4B2	
TLDE4C6	DURSPCX	OURSYSX	TLOPOOO	TLDE000	ILDE4B2	
TLDE4C7 ** TLDE4C8 **	OURSPC*	OURSYS* Oursys*	TL0P000 TL0P000	TLDECCO TLDECCO	TLDE4B2 TLDE4B2	
T000104	DURSYS	OURDMPX	T000002	T000102	1000103	TOOPOOO
T000109	DURSYSX	OURDMP*	T000001	T000107	T000108	TOOPOOO
T000114 T000204	OURSYS*	OURDMPX	T000001	T000112	T000113	TOOPOOO
T000209	OURSYSX	OURDMP* OURDMP*	T000202 T000001	T000203 T000207	T00P000 T000208	TOOPOOD
T000300	DURSYS*	TOOPOOO			.000200	1001 000
T000305	OURSYS	T00P000				
T000310 T000313	OURSYS*	TOOPOOO Ourdmp*	T000311	T000312	TOOPOOO	
T000313	OURSYS	OURDMPX	T000311	T000312	T00P000	
T000319	DURSYS *	OURDMP*	T000317	T000318	TOOPOOO	
T000322	DURSYS*	DURDMP *	T000320	T000321	TOOPOOO	
T000325 T000328	OURSYS*	OURDMP* OURDMP*	T000323 T000326	T000324 T000327	T00P000 T00P000	
T000328	OURSYSX	DURDMPX	T000328	T000327	TOOPOOO	
T000334	OURSYS *	OURDMPX	T000332	T000333	TOOPOOO	
T000337	DURSYSX	OURDMPX	T000335	T000336	TOOPOOO	
T000340 T000343	DURSYS*	OURDMP* OURDMP*	T000338 T000341	T000339 T000342	T00P000 T00P000	
TOD0346	DURSYS	OURDMPX	MATHFUNX	T000342	T0D0344	TOD0345
T000350	DURSYS*	DURDMPX	T000347	T000348	T000349	TOOPOOO
T000353	DURSYS	OURDMPX	T000347	T000351	T000352	TOOPOOO
T000356 T000359	OURSYS*	DURDMP* Durdmp*	T000354 T000357	T000355 T000358	T00P000 T00P000	
T000362	DURSYS	OURDMPX	T000360	T000361	TOOPOOO	
T000365	DURSPC *	OURSYS	DURDMPX	T000363	T000364	TOOPOOO
T000368	OURSPCX	OURSYS*	OURDMPX	T000366	T000367	T00P000
T00036B T0D036E	OURSPC*	OURSYS≭ Oursys×	OURDMP* OURDMP*	T000369 T00P000	T00036A T0D036C	T00P000 T0D036D
T00036H	OURSPCX	OURSYS	OURDMPX	T00036F	T00036G	TOOPOOD
TD0036K	DURSPC*	DURSYS*	DURDMPX	T000361	T00036J	T00P000
T00036N T0D036Q	OURSPC*	OURSYS* Oursys*	OURDMP* Ourdmp*	T00036L T00P000	T00036M T0D0360	T00P000 T0D036P
TODO36T	DURSPCX	OURSYS	OURDMPX	TOOPDOO	TODO36R	TDD0365
T00036H	DURSPC×	DURSYSX	OURDMPX	T00036U	T00036V	TOOPODO
TOD036Z	DURSYS*	OURDMPX	DURTYPX	TOOPOOO	TOD036X	TOD036Y
TOD0373	OURSPC* TOD0372	DURSYSX	OURDMPX	TOOPOOO	T0D0370	TOD0371
T000378	OURSYS	OURDMPX	T000374	T000375	T000376	T000377
	T00P000					
TOD0383	DURSPCX	DURSYS*	OURDMP×	T000374	TOOPOOD	T0D0380
T000391	TOD0381 OURSYS*	TODO382 OURDMPX	T000390	T00P000		
T000391	DURSYS	OURDMPX	T000390	T000403	TOOPOOD	
T000500	DURSYS*	TOOPOOO				
T000504	OURSYS	OURDMP#	T000502	T000503	TOOPOOO	
T000509	OURSYS	OURDMPX	T000507	T000508 T000513	TOOPOOD	
T000514 T000519	OURSYS*	OURDMP* Durdmp*	T000512 T000517	T000518	T00P000 T00P000	
TOD0525	OURSYS	OURDMPX	TOOPOOO	TOD0523	T0D0524	

^{##} Source file supplied with DEC file type only

Table G-5 Ada Type T test Programs and Source Code Files (concluded)

PROGRAM	SUPPORT	FILES(X - TE	ST SUPPORT	SOFTHARE PA	CKAGES USED	2
T0D0529	OURSYS*	DURDMPX	TOOPOOO	TOD0526	TOD0527	TOD0528
T000604	OURSYS*	DURDMPX	T000602	TD00603	TOOPOOO	
TD00605	DURSYS*	DURDMPX	TOOPOOO			
T000606	DURSYS*	DURDMPX	TOOPOOO			
T000607	DURSYSX	DURDMPX	TOOPOOO			
T000704	DURSYS*	DURDMPX	T000702	T000703	TOOPOOO	
1000705	DURSYSX	DURDMPX	TOOPOOO			
T000708	DURSYSX	DURDMPX	T000706	T000707	TOOPOOO	•
T000711	DURSYSX	DURDMPX	T000709	T000710	TOOPOOO	
T000713	DURSYSX	DURDMPX	TOOPDOO	, =		
T000714	OURSYSX	DURDMPX	TOOPOOO			
T000715	DURSYSX	DURDMPX	TOOPOOO			
T000716	OURSYS	DURDMPX	TOOPOOO			
T000717	DURSYSX	DURDMPX	TOOPOOO			
T000718	DURSYSX	DURDMPX	TOOPOOO			
T000721	DURSYSX	OURDMP*	T000719	T000720	TOOPOOO	

Table G-6 JOVIAL Test Programs and Source Code Files

PROGRAM	SUPPORT FI	LES(X - FIL	ES NAMED IN	COMPOOL AN	D COPY DIRE	CTIVES)
JA00000	OURJOV×	JOVDMP×	JAOPOBOX			
JF03519	OURJOV×	JOVDMP×	JF03500	JF03501	JF03502	JF03503
	JF03504	JF03513	JF03514	JFDP000×	JFJ3500×	JFJ3501×
JF03550	JFJ3502* OURJOV*	JFJ3503× JOVDMP×	JFJ3504× JDVSPC×	JFJ3513× JFOPOOO×	JFJ3514×	
JFD3551	OURJOVX	JOVDMPX	JOVSPC*	JF0P000×		
JF03620	DURJOV×	JOVDMP×	JF03680	JF03601	JF03602	JF03603
	JF03604	JF03605	JF03606	JF03607	JF03608	JF03609
	JF03610 JFJ3604*	JF0P000× JFJ3605×	JFJ3600×	JFJ3601×	JFJ3602× JFJ3608×	JFJ3603× JFJ3609×
	JFJ3610×	JFJ36U3×	JFJ3606*	JFJ3607×	JLJ3000×	JFJ3607×
JF03704	DURJOVX	JOVDMP×	JOVSPC *	JF03700	JF03701**	JF03702
	JF03703	JF0P000×	JFJ3700×	JFJ3701*	JFJ3702×	JFJ3703×
JF03805	DURJOV×	JOVDMPX	JOVSPCX	JF03800	JF03801	JF03802
	JF03803 JFJ3803*	JF03804	JF0P000×	JFJ3800×	JFJ3801×	JFJ3802×
JF04120	DURJOVX	JFJ3804× JOVDMP×	JF0P000×			
JF04121	DURJOVX	JOVDMPX	JF0P000×			
JF04122	DURJOV×	JOVDMPX	JF0P000×			•
JF04123	DURJOV×	JOVDMPX	JF0P000×			
JF04124 JF04125	OURJOV× OURJOV×	JOVDMPX	JF0P000×			
JF04125 JF04126	DURJOVX	JOVDMPX JOVDMPX	JF0P000× JF0P000×		•	
JF04127	DURJOVX	JOVDMPX	JFDPDDDX			
JFD4128	DURJOV×	JOVDMP×	JOVSPCX	JF0P000×		
JF04129	OURJOV×	JOVDMP×	JF0P000×			
JFD412A	DURJOVX	JOVDMPX	JOVSPC×	JF0P000×		
JF0412B JFD412C	OURJOV× OURJOV×	JOVDMP× JOVDMP×	JOVSPC* JOVSPC*	JF0P000× JF0P000×		
JFD412D	DURJOVX	JOVDMPX	JOVSPCX	JF0P000×		
JF04130	DURJOV×	JOVDMPX	JOVSPC×	JF0P000×		
JF04131	OURJOV×	JOVDMP×	JOVSPC×	JF0P000×		
JF04132	DURJOVX	JOVDMPX	JOVSPCX	JF0P000×		
JF04133 JFD4135	OURJOV*	JOVDMPX JOVDMPX	JOVSPC× JOVSPC×	JF0P000× JF0P000×		
JFD4136	DURJOVX	JOVDMPX	JOVSPCX	JF0P000×		
JFD4137	DURJOV×	JOVDMP×	JOVSPCX	JF0P000×		
JFD4138	OURJOV×	JOVDMPX	JOVSPCX	JF0P000×		
JFD4139 JFD413A	DURJOVX Durjovx	JOVDMP× JOVDMP×	JOVSPC* JOVSPC*	JF0P000× JF0P000×		
JFD413A JFD413B	OURJOVX	JOVDMPX	JOVSPCX	JF0P000×		
JFD413C	DURJOVA	JOVDMPX	JOVSPCX	JF0P000×		
JF0413D	DURJOVX	JOVDMP×	JOVSPC×	JF0P000×		
JFD413E	OURJOVX	JOVDMPX	JOVSPCX	JF0P000×		
JFD413G JF0413H	OURJOV× OURJOV×	JOVDMP* JOVDMP*	JOVSPC* JOVSPC*	JF0P000× JF0P000×		
JF04131	DURJOVX	JOVDMPX	JOVSPC×	JF0P000×		
JF0413J	DURJOVX	JOVDMPX	JOVSPCX	JF0P000×		
JF0413K	DURJOVX	JOVDMPX	JOVSPC×	JF0P000×		
JF04310	DURJOV×	JOVDMPX	JOVSPC×	JF0P000×		
JF04311 * JF04312	OURJOV× OURJOV×	JOVDMP* JOVDMP*	JOVSPC* JOVSPC*	JF0P000× JFDP000×		
JF04510	DURJOVX	JOVDMPX	JF0P000×	31 01 000		
JF04511	DURJOVX	JOVDMP×	JF0P000×			
JF04512	DURJOV×	JOVDMPX	JF0P000×			
JF04513	OURJOVX	JOVDMPX	JF0P000* JF0P000*			
JF04514 JF04515	OURJOV*	JOVDMP*	JF0P000×			
JF04516	OURJOVX	JOVDMPX	JF0P000×			
JF04517	OURJOVX	JOVDMP×	JF0P000×			
JF0451J * *	DURJOV×	JOVDMPX	JF04518	JF04519	JF0451A	JF0451B
	JF0451C	JF0451D	JF0451E	JF0451F	JF0451G	JF0451H\$

^{\$} Source file supplied with USE file type only
\$\$ Multiple versions of source file supplied(USE and JOV/CPL file types)

Table G-6 JOVIAL Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LES(X - FI	ES NAMED IN	COMPODL AN	D COPY DIRE	CTIVES)
	JF0451I# JFJ451C*	JF0P000× JFJ451D×	JFJ4518× JFJ451E×	JFJ4519× JFJ451F×	JFJ451A× JFJ451G×	JFJ451B× JFJ451H\$×
128453116	JFJ451I#X OURJOVX	JOVDMP×	JOVTYPX	JF0P000×	JFD451K	JFD451L
JFD451U\$	JFD451M	JFD451N\$	JFD4510#	JFD451P	JFD4519	JFD451R\$
	JFD451S\$	JFJ451K×	JFJ451L×	JFJ451M×	JFJ451N\$X	JFJ4510**
	JFJ451PX	JFJ451Q*	JFJ451R#X	JFJ451S**	JFJ451T*	
JF0451Z	DURJOV×	JOVDMPX	JF0451V	JF0451W	JF0451X	JF0451Y
	JF0P000×	JFJ451V×	JFJ451HX	JFJ451X×	JFJ451Y×	
JF04520	NURJOV× ×VOLAUO	JOVDMP*	JF0P000× JF0P0D0×			
JF04521 JF04522	DURJOVX	JOVDMPX	JF0P000×			
JFD4523	DURJOVX	JOVDMPX	JOVTYPE	JF0P000×		
JFD4524	DURJOVX	JOVDMP×	JOVTYPX	JF0P000×		
JFD4525\$	OURJOV×	JOVDMPX	JOVTYPX	JF0P000×		
JFD4526*	OURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JF04527	DURJOVX	JOVDMPX	JF0P000×	JF0P000×		
JFD4528 \$ JF04529	OUR <i>jo</i> v× Ourjov×	JOVDMP* JOVDMP*	JOVSPC× JF0P000×	JEGEGGG		
JFD452A	DURJOVX	JOVDMPX	JOVSPCX	JFDPD00×		
JF04530	DURJOV×	JOVDMPX	JF0P000×			
JF04531	DURJOV×	JOVDMPX	JF0P000×			
JF04532	OURJOV×	JOVDMPX	JF0P000*			
JF04533	DURJOV×	JOVDMPX	JF0P000×			
JF04534	DURJOVX	JOVDMP*	JF0P000× JF0P000×			
JF04535 JF04536	OURJOV× OURJOV×	JOVDMPX	JF0P000×			
JF04537	DURJOVX	JOVDMPX	JFOPDOOX			
JF04538	DURJOVX	JOVDMPX	JF0P000×			
JF04539	DURJOV×	JOVDMPX	JF0P000×			
JF0453A	DURJOV *	JOVDMPX	JF0P000×			
JF0453B	OURJOV×	JOVDMPX	JF0P000×			
JF0453C	OURJOVX	JOVDMPX	JF0P000×			
JF04540 JF04541	OURJOV× OURJOV×	JOVDMPX JOVDMPX	JF0P000× JF0P000×			
JF04550	OURJOVA	JOVDMPX	JF0P000×			
JF04551	OURJOVX	JOVDMPX	JF0P000×			
JF04552	DURJOV×	JOVDMPX	JF0P000×			
JF04553	OURJOV×	JOVDMPX	JF0P0D0×			
JF04554	OURJOV×	JOVDMPX	JF0P000*			
JF04555	DURJOVX	JOVDMP*	JF0P000× JF0P000×			
JF04556 JF04557	OURJOV× OURJOV×	JOVDMPX	JF0P000×			
JF04558	DURJOVX	JOVDMPX	JF0P000×			
JF04559	DURJOV×	JOVDMPX	JF0P000×			
JFD455D	DURJOV *	JOVDMPX	JOVTYPX	JF0P000×		
JFD455E	OURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JFD435F\$	OURJOVX	JOVDMPX	JOVTYPX	JF0P000*		
JFD455G \$ JFD455I	OURJOV× OURJOV×	JOVDMP*	X9YTVDL	JF0P000* JF0P000*		
JFD455J	OURJOVX	JOVDMPX	JOVTYPE	JF0P000×		
JFD455K\$	OURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JFD455L#	DURJOV ×	JOVDMPX	JOVTYPX	JFOPOOD ×		
JF0455N	DURJOV×	JOVDMPX	JF0P000×			
JF04550	DURJOV×	JOVDMPX	JF0P000×			
JF04560 JF04562	OURJOV× OURJOV×	JOVDMPX JOVDMPX	JF0PG00* JF0PG00*			
JF04563	DURJOVX	JOVDMPX	JF0P000×			
JFD4566	OURJOVX	JOVDMPX	JOYTYPE	JF0P000×		
JFD4567	DURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JFD4568\$	OURJOV×	JOVDMPX	JOVTYPX	JF0P0D0×		
JFD4569#	OURJOV×	JOVDMPX	JOYTYPX	JF0P000×		
JF04600	DURJOV×	JOVDMP×	JF0P0D0*			

[#] Source file supplied with USE file type only

Table G-6 JOVIAL Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT	FILES(X - F	ILES NAMED IN	COMPOOL AND	COPY	DIRECTIVES)
JF04601	DURJOV×	JOVDMP×	JF0P000x			
JF04602	DURJOV×	JOVDMPX	JF0P000×			
JFD4603	OURJOV×	JOVDMPX	JOVTYPX	JF0P000×		
JFD4604	DURJOV×	JOVDMP×	JOVTYPX	JF0P000×		
JFD4605	OURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JFD4606	OURJOV×	JOVDMPX	JOVTYPX	JF0P000×		
JFD4607 JFD4608\$	OURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JFD4608*	DURJOV* DURJOV*	JOVDMPX	JOVTYPX	JF0P000×		•
JFD460A\$	DURJOVX	JOVDMP× JOVDMP×	*9YTYOL *9YTYOL	JF0P000×		
JFD460B\$	DURJOVX	JOVDMPX	JOVITE	JF0P000× JF0P000×		
JFD460C\$	OURJOVX	JOVDMPX	JOVTYPE	JF0P000×		
JFD460D\$	DURJOYX	JOVDMPX	JOVTYPX	JF0P000×		
JF0460E	OURJOV ×	JOVDMPX	JF0P000×	01 01 000		
JF0460F	DURJOV ×	JOVDMP×	JF0P000×			
JF046DG	DURJOVX	JOVDMPX	JF0P000×			
JF0460H	DURJOVX	JOVDMPX	JF0P000×			
JF0460I JF046DJ	DURJOVX	JOVDMPX	JF0P000×	48000000		
JFD460K	OURJOV*	JOVDMPX	JOVSPCX	JF0P000×		
JFD460L	OURJOVX	JOVDMP* JOVDMP*	JOVSPC* JOVSPC*	JF0P000×		
JF0460M	OURJOVX	JOVDMPX	JOVSPCX	JF0P000× JF0P000×		
JFD460N	OURJOVX	JOVDMPX	JOVSPCX	JF0P000×		
JFD4600	OURJOVX	JOVDMPX	JOVSPCX	JF0P000x		
JF05200	OURJOV *	JOVDMPX	JF0P000×	01 01 000-		
JF05201	OURJOV×	JOVDMPX	JF0P000×			
JF05202	DURJOY	JOVDMPX	JF0P000×			
JF05203	DURJOVX	JOVDMPX	JF0P000×			
JF05204 JF05205	DURJOVX	JOVDMPX	JF0P000×			
JF05205 JF05206	OURJOV× OURJOV×	JOVDMP* JOVDMP*	JF0P000×			
JF05207	DURJOVX	JOVDMPX	JF0P000× JF0P000×			
JF05208	DURJOVX	JOVDMPX	JF0P000x			
JF05209	DURJOV×	JOVDMPX	JF0P000x			
JF0520A	DURJOVX	JOVDMPX	JF0P000×			
JF0520B	DURJOV×	JOVDMPX	JF0P000×			
JFD520C	DURJOV×	JOVDMPX	JOVTYPX	JF0P000×		
JFD520D	OURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JFD520E JFD520F	OURJOVX	JOVDMPX	JOVTYPX	JF0P000×		
JFD520G\$	OURJOVX OURJOVX	JOVDMPX JOVDMPX		JF0P000×		
JFD520H\$	OURJOVX	JOVDMPX	JOVTYPX . JOVTYPX	JFOPOOOX JFOPOOOX		
JFD5201#	DURJOVA	JOVDMPX		JF0P000×		
JFD520J\$	DURJOVX	JOVDMPX	JOVTYPE	JF0P000×		
JF0520M	DURJOVX	JOVDMP×		JF0P000×		
JFD520N	DURJOV *	JOVDMPX	JOVSPC×	JF0P000×		
JF05200	DURJOVX	JOVDMPX	JOVSPC×	JF0P000×		
JFD520P	DURJOVX	JOVDMPX	JOVSPC×	JF0P000×		
JFD520Q JF0520R	OURJOVX	JOVDMPX	JOVSPCX	JF0P000x		
JF0520K	OURJOV× OURJOV×	JOVDMPX JOVDMPX		JF0P000x		
Jr05210	OURJOVA	JOVDMPX	JF0PD00x	JF0P000×		
JF05211	OURJOVX	JOVDMPX	JF0P000x			
JF05212	DURJOVX	JOVDMPX	JF0P000×			
JF05213	OURJOVX	JOVDMPX	JF0P000×			
JF05214	DURJOV×	JOVDMPX	JF0P000x			
JF05215	DURJOVX	JOVDMPX	JF0P000x			
JFD5218	OURJOVX	JOVDMPX		JF0P000×		
JFD5219	OURJOVX	JOVDMPX		JF0P000×		
JFD521A JFD521B	OURJOV*	JOVDMPX		JF0P000×		
JFD5216	OURJOV*	JOVDMP× JOVDMP×		JF0P000x		
JFD521D\$	DURJOV×	JOVDMPX		JF0P000× JF0P000×		
232104	SUNJUTX	JUTUNICA	JUTITE	STUPUUUR		

^{*} Source file supplied with USE file type only

Table G-6 JDVIAL Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LESCH - FI	ES NAMED IN	COMPODL AN	D COPY DIRE	CTIVES)
JFD521E\$	OURJOV×	JOVDMPX	JOVTYPX	JF0P000×		
JFD521F\$	OURJOV×	JOVDMPX	JOVTYPX	JF0P000×		
JF0521H	OURJOVX	JOVDMPX	JF0P000×			
JF05211	DURJOVX	JOVDMPX Semovol	JFOPOOO× JFOPOOO×			
JF0521J JF0521K	OURJOV× OURJOV×	JOVDMPX	JF0P000×			
JFD521K JFD521K	DURJOV×	JOVDMPX	JOVSPCX	JF0P000×		
JF0521L	DURJOVX	JOVDMPX	JOVSPCX	JF0P000×		•
JFD521M	OURJOV×	JOVDMPX	JOVSPC×	JF0P000×		
JF0521N	DURJOV×	JOVDMPX	JOVSPC *	JF0P000*		
JFD5210	PVOLSUQ	JOVDMPX	JOVSPC×	JFDP000×		
JFD521P	DURJOV×	JOVDMPX	JOVSPC×	JF0P000×	JF05302	JF05303
JF05304	DURJOVX	JOVDMPX	JF05300 JFJ5301*	JF05301 JFJ5302×	JFJ5303×	9143303
1505700	JF0P000* DURJOV*	JFJ5300* JOVDMP*	JF05301×	JF05306	JF05307	· JFOPOOOX
JF05308	JFJ5305×	JFJ5306×	JFJ5307×	3103300	0.0500.	
JF05408	DURJOVX	JOVDMPX	JF05400	JF05401	JF05402	JF05403
0.05400	JF05404	JF05405	JF05406	JF05407	JF0P000×	JFJ5400×
	JFJ5401*	JFJ5402×	JFJ5403×	JFJ5404*	JFJ5405*	JFJ5406*
	JFJ5407×				100550	IFOREA.
JF05505	OURJOV×	JOVDMPX	JF05501	JF05502	JF05503	JF05504
	JFOPDODX	JFJ5501*	JFJ5502×	JFJ5503×	JFJ5504* JF05508	JF05509
JF0550C	OURJOVX	JOVDMP× JF0550B	JF05506 JF0P000*	JF05507 JFJ5506*	JFJ5507×	JFJ5508×
	JF0550A JFJ5509*	JFJ550A×	JFJ550B×	9193300~	0.0220	
JF0550D	DURJOYA	JOVDMPX	JF0P000×			
JF0550E	DURJOVX	JOVDMPX	JF0P000×			
JF0550F	OURJOV×	JOVDMP×	JF0P000×			
JF06001	DURJOV ×	JOVDMPX	JF0P000×			
JF06009	DURJOV×	JOVDMPX	JF0P000×			
JF06010	OURJOVX	JOVDMP×	JF0P000×			
JF06011	OURJOVX	JOVDMPX	JF0P000× JF06013	JF06014	JF06015	JF06016
JF06022	OURJOV× JF06017	JOVDMPX JF06018	JF06013	JF0P0D0×	JFJ6013×	JFJ6014×
	JFJ6015×	JFJ6016×	JFJ6017×	JFJ6018×	JFJ6019×	
JF06033	DURJOVX	JOVDMPX	JF06023	JF06024	JF06025	JF06026
0.0000	JF06027	JF06028	JF06029	JF06030	JF06031	JF06032
	JF0P000×	JFJ6023*	JFJ6024×	JFJ6025X	JFJ6026×	JFJ6027*
	JFJ6028×	JFJ6029*	JFJ6030×	JFJ6031*	JFJ6032*	JF06046
JF06053	OURJOVX	JOVDMPX	JF06043	JF06044 JF06050	JF06045 JF06051	JF06052
	JF06047	JFD6048 JFJ6043*	JF06049 JFJ6044*	JFJ6045×	JFJ6046×	JFJ6047×
	JF0P000* JFJ6048*	JFJ6049×	JFJ6050×	JFJ6051×	JFJ6052×	•••••
JF06069	DURJOVX	JOVDMPX	JF06060	JF06061	JF06062	JF06063
31 00007	JF06064	JF06065	JF06066	JF06067	JF06068	JF0P000×
	JFJ6060*	JFJ6061×	JFJ6062*	JFJ6063*	JFJ6064*	JFJ6065*
	JFJ6066*	JFJ6067*	JFJ6068*			150/077
JF06079	OURJOY	JOVDMPX	JF06070	JF06071	JF06072	JF06073 JF0P000¥
	JF06074	JF06075	JF06076 JFJ6072×	JF06077 JFJ6073*	JF06078 JFJ6074×	JFJ6075×
	JFJ6070×	JFJ6071× JFJ6077×	JFJ6078×	JF360/3×	31300145	0,000,0
JF06101	JFJ6076× OURJOV×	JOVDMPX	JF06100	JF0P000*	JFJ6100×	
JF06101	DURJOVX	JOVDMPX	JF06108	JF0P000×	JFJ6108×	
JF06110	OURJOVX	JOVDMPX	JF06108	JF0P000×	JFJ6108×	
JF06111	DURJOV×	JOVDMPX	JF06108	JF0P000×	JFJ6108×	
JF06122	DURJOV×	JOVDMPX	JF06112	JF06113	JF06114	JF06115
	JF06116	JF06117	JF06118	JF06119	JF0P000×	JFJ6112*
	JFJ6113*	JFJ6114×	JFJ6115×	JFJ6116×	JFJ6117*	3FJ6118*
	JFJ6119*	10/1240=	JF06132	JF06133	JF06134	JF06135
JF06140	OURJOV× JF06136	JOVDMP× JF06137	JF06132 JF06138	JF06133	JF0P000×	JFJ6132*
	JFJ6135×	JFJ6134×	JFJ6135×	JFJ6136×	JFJ6137×	JFJ6138*
	JFJ6139×	414464	J. J. J. J. J. J.			
	J. JJ. 65/~		•			

[#] Source file supplied with USE file type only

Table G-6 JOVIAL Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LESCX - FIL	ES NAMED IN	COMPOOL AN	D COPY DIRE	CTIVES)
JF06150	OURJOV×	JOVDMP×	JF06142	JF06143	JF06144	JF06145
	JF06146	JF06147	JF06148	JF06149	JF0P000×	JFJ6142×
	JFJ6143*	JFJ6144*	JFJ6145×	JFJ6146*	JFJ6147×	JFJ6148×
JF06160	JFJ6149× OURJOV×	JOVDMP×	JF06152	JF06153	JF06154	JF06155
0.00100	JF06156	JF06157	JF06158	JF06159	JF0P000×	JFJ6152×
	JFJ6153×	JFJ6154×	JFJ6155×	JFJ6156×	JFJ6157×	JFJ6158×
	JFJ6159×					•
JF06170	OURJOV×	JOVDMPX	JF06162	JF06163	JF06164	JF06165
	JF06166 JFJ6163*	JF06167	JF06168	JF06169 JFJ6166*	JF0P000× JFJ6167×	JFJ6162*
	JFJ6169×	JFJ6164×	JFJ6165×	7L70T00×	3L3010/x	JFJ6168×
JF06180	DURJOVX	JOVDMPX	JF06172	JF06173	JF06174	JF06175
	JF06176	JF06177	JF06178	JF06179	JF0P000×	JFJ6172×
	JFJ6173*	JFJ6174×	JFJ6175×	JFJ6176*	JFJ6177×	JFJ6178×
1504100	JFJ6179×	1011011011				.=
JF06190	DURJOV× JF06186	JOVDMP× JF06187	JF06182 JF06188	JF06183 JF06189	JF06184	JF06185
	JFJ6185×	JFJ6184×	JFJ6185×	JFJ6186×	JF0P000× JFJ6187×	JFJ6182× JFJ6188×
	JFJ6189×	0100204~	0100103~	0100100~	31 30101~	2120100~
JF06199	OURJOVX	JOVDMP×	JOVSPC×	JF06191	JF06192	JF06193
	JF06194	JF06195	JF06196	JF06197	JF06198	JF0P000×
	JFJ6191×	JFJ6192×	JFJ6193×	JFJ6194×	JFJ6195*	JFJ6196*
JF0619I	JFJ6197* OURJOV*	JFJ6198× JOVDMP×	JOVSPC×	JF0619A##	JF0619B	JF0619C
3100141	JF0619D	JF0619E	JF0619F	JF06196	JF0619B	JF0P000×
	JFJ619A×	JFJ619B×	JFJ619C×	JFJ619D×	JFJ619E×	JFJ619F×
	JFJ619G×	JFJ619H×				
JF0619R	DURJOVX	JOVDMPX	JOVSPCX	JF0619J	JF0619K	JF0619L
	JF0619M	JF0619N	JF06190	JF0619P	JF06199	JF0P000×
	JFJ619J× JFJ619P×	JFJ619K× JFJ6190×	JFJ619L×	JFJ619M×	JFJ619N×	JFJ6190×
JFD6201	OURJOVX	JOVDMPX	JF0P000×			
JFD6209	OURJOVX	JOVDMPX	JF0P000×			
JFD6210	DURJOVX	JOVDMP×	JFOPODOX			
JFD6211	OURJOVX	JOVDMPX	JF0P000×			
JFD6222	OURJOVX	JOVDMPX	JF0P000×	JFD6213	JFD6214	JFD6215
	JFD6216 JFJ6215*	JFD6217 JFJ6216*	JFD6218 JFJ6217×	JFD6219 JFJ6218*	JFJ6213× JFJ6219×	JFJ6214×
JFD6233	DURJOVX	JOVDMPX	JF0P000×	JFD6223	JFD6224	JFD6225
	JFD6226	JFD6227	JFD6228	JFD6229	JFD6230	JFD6231
	JFD6232	JFJ6223*	JFJ6224×	JFJ6225*	JFJ6226*	JFJ6227×
158/057	JFJ6228×	JFJ6229×	JFJ6230*	JFJ6231×	JFJ6232*	155/5/5
JFD6253	OURJOV× JFD6246	JOVDMP× JFD6247	JF0P000× JFD6248	JFD6243 JFD6249	JFD6244 JFD6250	JFD6245 JFD6251
	JFD6252	JFJ6243×	JFJ6244*	JFJ6245*	JFJ6246*	JFJ6247×
	JFJ6248×	JFJ6249×	JFJ6250×	JFJ6251×	JFJ6252×	0.000
JFD6269\$	DURJOV×	JOVDMPX	JF0P000×	JFD6260#	JFD6261#	JFD6262\$
	JFD6263#	JFD6264*	JFD6265#	JFD6266*	JFD6267\$	JFD6268#
	JFJ6260\$*	JFJ6261**	JFJ6262**	JFJ6263 4 ×	JFJ6264#X	JFJ6265**
JFD6279\$	JFJ6266\$* OURJOV*	JFJ62674× JOVDMP×	JFJ6268#X JFDP000X	JFD6270#	JFD6271#	JFD6272\$
31 802774	JFD6273#	JFD6274#	JFD6275#	JFD6276\$	JFD6277\$	JFD6278\$
	JFJ6270**	JFJ62714×	JFJ62724×	JFJ6273**	JFJ6274**	JFJ6275**
	JFJ6276 \$ X	JFJ6277 * ×	JFJ6278**			- '
JF06803	OURJOV*	JOVDMPX	JF06802	JF0P000×	JFJ6802×	
JF06807 JF06809	OURJOVX	JOVDMPX	JF06806	JF0P000×	JFJ6806×	15140002
JF06809	OURJOV× OURJOV×	JOVDMP× JOVDMP×	JOVSPC* JOVSPC*	JF06808 JF0680A	JF0P000× JF0P000×	JFJ6808* JFJ680A*
JF0680D	OURJOVA	JOVDMPX	JOVSPC×	JF0680C	JF0P000×	JFJ680C×
JF0680F	DURJOVX	JOVDMPX	JOVSPC×	JF068DE	JF0P000×	JFJ680EX
JFD680H	DURJOV×	JOVDMPX	JOVSPC×	JF0P000×	JFD680G	JFJ680G×

^{\$} Source file supplied with USE file type only
\$# Multiple versions of source file supplied(USE and JOV/CPL file types)

Table G-6 JOVIAL Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LES(X - FIL	ES NAMED IN	COMPOOL AN	D COPY DIRE	CTIVES)
150/001	DURJOVX	JOVDMP×	JOVSPC×	JFDP000×	JFD680I	JFJ6801×
JFD680J JF06811	DURJOV×	JOVDMPX	JF06810	JF0P000×	JFJ6810×	
JF06815	DURJOV×	JOVDMPX	JF06814	JF0P000×	JFJ6814×	
JF06817	OURJOV×	JOVDMPX	JF06816	JF0P000×	JFJ6816* JFJ6818*	
JF06819	OURJOVX	JOVDMP* JOVDMP*	JF06818 JF06820	JF0P000× JF0P000×	JFJ6820×	
JF06821 JF06823	OURJOV* OURJOV*	JOVDMPX	JOVSPC×	JF06822**	JF0P000×	JFJ6822×
JF06825	OURJOVX	JOVDMPX	JOVSPC×	JF06824	JF0P000×	JFJ6824×
JFDD600	OURJOV ×	JOVSPC×	JF0P000×			
JFDD601	DURJOV×	JOVSPC×	JF0P000×			
JFDD602** JFDD603**	OURJOV× OURJOV×	JOVSPC* JOVSPC*	JFOPOOO× JFOPOOO×			
JFDD60344 JFDD604	DURJOVX	JOVSPC×	JF0P000×			
JFDD605	DURJOV×	JOVSPC×	JF0P000×			
JFDD606	DURJOV×	JOVSPCX	JF0P000×			
JFDD607	OURJOV× OURJOV×	JOVSPC* JOVSPC*	JF0P000× JF0P000×			
JFDD608 JFDD609	OURJOVX	JOVSPCX	JF0P000×			
JFDD610**	OURJOV×	JOVSPCX	JF0P000×			
JFDD611**	OURJOV×	JOVSPC×	JF0P000×			
JF0D720	OURJOVX					
JF0D721 JFDD722	¥VQLЯUQ ×VOLЯUQ	JOVTYP×				
JFDD723	OURJOVX	JOVTYPX				
JFDD724\$	OURJOVX	JOVTYPX				
JFDD725\$	OURJOVX	JOVTYPX				
JFDD727 JFDD728	OURJOV× OURJOV×	JOVSPC×				
JF0D729	DURJOVX	JOVSPCX				
JFDD72A	DURJOVX	JOVSPC×				
JFDD72B	OURJOV×	JOVSPC×				
JFDD72C	OURJOV× OURJOV×	JOVSPC* JOVSPC*				
JF0D72D JFDD72E	OURJOV×	JOVSPCX				
JFDD72F	OURJOV×	JOVSPCX				•
JFDD72G	DURJOV×	JOVSPCX				
JFDD72H	OURJOY× OURJOY×	JOVSPC* JOVSPC*				
JFDD72I JFDDA01	DURJOV×	JOVSPCX	JF0P000×			
JFDDA02	DURJOV×	JOVSPC×	JF0P000×			
JFDF000	DURJOV×	JOVDMPX	JOVMATHX	JF0P000×		
JFDF001	OURJOVX	JOVDMP* JOVDMP*	*HTAMVQL *HTAMVQL	JF0P000× JF0P0D0×		
JFDF002 JFDF003	DURJOV× DURJOV×	JOVDMPX	JOVMATHE	JF0P000×		
JFDF004	OURJOVX	JOVDMPX	JOVMATHX	JF0P000×		
JFDF005	DURJOYX	JOVDMPX	JOVMATHX	JF0P000×	JGF0001	
JGD0001	OURJOVE	XHTAMVOL XOOQQOQL	JGDP000× JGD0004×	JGD0000× JGD0005×	JGD0006×	JGD0007
1600009	OURJOV× JGD0008**	JOUPOUUX	300000×	2020003~	000000	
JG0000C	DURJOYX	JOVDMP×	JG0P000×			
JGD000E	DURJOV×	JG0P000x	JGD0000×	JGD000D	JGF000E JGND00H×	TOOOODX
JGNOOOK	OURJOV×	JG0P000×	JGN000F×	JGN000G×	JORUUUNA	JOROUT
J000104	#¥C00CNQL *VOLRUG	JOVDMP×	J000002*	J000102	J000103	J00P000*
3000107	J0J0102×	1010102×	_			10 10000-
J000204	DURJOVX	JOVDMPX	J000202	J000203	`J00P000×	1010505x
	J0J0203×	1000000×				
J000300 J000305	OURJOV×	X000000X				
J000310	DURJOV×	JOOPOOO×				
J000313	DURJOV×	JOVDMPX	J000311	J000312	J00P000×	1010211×
	7070315*					

^{\$} Source file supplied with USE file type only \$\$ Multiple versions of source file supplied(USE and JOV/CPL file types)

Table G-6 JDVIAL Test Programs and Source Code Files (continued)

PROGRAM	SUPPORT FI	LES(X - FIL	ES NAMED IN	COMPOOL AN	D COPY DIRE	CTIVES)
J000316	OURJOV× Jojo315×	JOVDMPX	J000314	J000315	J00P000×	J0J0314×
J000319\$	OURJOVX JOJO318¢X	JOVDMP×	J000317¢	J000318¢	JOOPOOOX	J0J0317**
J000322\$	OURJOVX JOJ0321¢X	JOVDMP×	J000320\$	J000321*	J00P000×	J0J0320¢×
J000325	DURJOV× JOJ0324×	JOVDMP×	J000323	J000324	J00P000×	J0J0353×
J000328	OURJOV× Jojo327×	JOVDMPX	J000326	J000327	JOOPODOX	1010256×
J000331	OURJOV*	JOVDMPX	J000329	J000330	JOOP000×	J0J0329×
J000334	OURJOVX JOJO333X	JOVDMPX	J000332	J000333	J00P000×	J0J0332×
J000337	OURJOV* J0J0336*	JOVDMPX	J000335	J000336	J00P000×	J0J0335×
J000340	OURJOV× JOJ0339×	JOVDMPX	J000338	J000339	JOOPOOOX	J0J0338×
J000343 J0D0346	OURJOVX JOJO342X OURJOVX	JOVDMPX	J000341 J00P000×	J000342 J0D0344	J00P000× J0D0345	J0J0341×
J000350	JOJO345× OURJOV×	JOVDMPX JOVDMPX	J00780QX J000347	J000344 J000348	J000349	J000000×
J000353	JOJO347× OURJOV×	JOJO348× JOVDMP×	J0J0349× J000347	J000351	J000347 J000352	JOOPDOOX
J000365	JOJO347× OURJOV×	JOJO351× JOVDMP×	JOJO352× JOVSPC×	J000363	J000364	J00P000×
J00036K	JOJO363× OURJOV×	JOJ0364× JOVDMP×	JOVSPC×	J00036I	J00036J	J00P000×
J00036N	JOJO36I× OURJOV×	JOJO36J× JOVDMP×	JOVSPC×	J00036L	J00036M	J00P000×
J0D036Q	DURJOV×	JOVDMPX	JOVSPC×	JOOPOOO×	J0D0360	JODO36P
JOD036T	JOJO360× OURJOV×	JOJO36PX	JOVSPC×	J00P000×	JOD036R	JOD036S
J00036H	JOJO36R× OURJOV×	JOJO36S*	JOVSPC×	J00036U	J00036V	J00P000×
JOD036Z	JOJO36UX JOJO36XX	JOJO36V× JOJO36V×	JOVTYPX	J00P000×	JOD036X	JOD036Y
J000391	DURJOVX	JOVDMPX	J000390	J00P000×	J0J0390×	
J000404	OURJOV× J0J0403×	JOVDMPX	J000402	J000403	J00P000×	J0J0402*
J000500 J000504	OURJOVX OURJOVX	JOUPOOO*	J000502	J000503	JOOPOOO×	J0J0502×
J000509	JOJO503×	JOVDMPX	J000507	J000508	J00P000×	J0J0507×
J000514	J0J0508× J0J0513×	JOVDMP×	J000512	J000513	J00P000×	J0J0512×
J000519	OURJOV× JOJO518×	JOVDMPX	J000517	J000518	J00P000×	J0J0517×
J0D0525	OURJOV× JOJ0524×	JOVDMPX	JOOPOOO×	J0D0523	J0D0524	J 0J0523×
J000604	OURJOVX JOJ0603×	JOVDMP×	J00060S	J000603	J00P000*	J0J0605*
J000605	DURJOVX	JOVDMP×	JOOPDOO*			
1000606	OURJOV×	JOVDMPX	J00P000×			
J000607	OURJOV×	JOVDMPX	J00P000×	1000707	1000000	10 10707
J000704	OURJOVX JOJ0703X OURJOVX	JOVDMP×	J000702 J00P000×	J000703	J00P000×	J0J0702×
J000705 J000708	OURJOVX	JOVDMPX	J000706	J000707	J00P000×	J 0J0706×

[#] Source file supplied with USE file type only

Table G-6 JDVIAL Test Programs and Source Code Files (concluded)

PROGRAM	SUPPORT F	LES(X - FI	LES NAMED I	COMPOOL A	ND COPY DIR	ECTIVES)
J000711	JOJO707× OURJOV× JOJO710×	JOVDMPX	J000709	J000710	J00P000×	J 0J0709×
J000713	DURJOVX	JOVDMP×	J00P000×			
J000714	DURJOV×	JOVDMPX	J00P000*			
J000715	DURJOV×	JOVDMPX	J00P000*			
J000716	DURJOVX	JOVDMPX	J00P000×			
J000717	DURJOV×	JOVDMPX	JOOP000*			•
J000718	DURJOVX	JOVDMPX	J00P000*			
J000721	OURJOV× Jojo720×	JOVDMP×	J000719	J000720	J00P000×	J0J0719×

Table G-7. FORTRAN Test Programs and Source Code Files

PROGRAM	SUPPORT F	LES(× - FII	ES NAMED IN	N INCLUDE S	TATEMENTS)	
FA00000	OURFORX	FAOPODO×	-			
FF03519	OURFOR* FF0P000*	FF03500	FF03502	FF03503	FF03504	FF03514
FF03620	OURFORX	FF03600	FF03602	FF03603	FF03605	FF03606
FF04120	FF03608 OURFOR×	FF03609 FF0P000*	FF0P000×			
FF04121	OURFORX	FF0P000×				
FF04122	OURFORX	FF0P000×				
FF04123	OURFORX	FF0P000×				
FF04124 FF04125	OURFOR* OURFOR*	FF0P000× FF0P000×				
FF04126	OURFORX	FFOPOOOX				
FF04127	OURFORX	FF0P000×				
FF04129 FF04510	OURFOR* OURFOR*	FF0P000*				
FF04511	OURFORX	FF0P000× FF0P000×				
FF04512	DURFOR *	FF0P000×				
FF04513	OURFORX	FF0P000×				
FF04514 FF04515	OURFOR* .	FF0P000× FF0P000×				
FF04516	OURFORX	FF0P000x				
FF04517	OURFORX	FF0P000×				
FF0451J	OURFOR* FF0451D	FF04518	FF04519	FF0451A	FF0451B	FF0451C
	FF0P000×	FF0451E	FF0451F	FF0451G	FF0451H	FF0451I
FFD451U\$	OURFORX	FORTYPX	FF0P000×	FFD451K	FFD451L	FFD451M
FF8/F17	FFD451N	FFD4510	FFD451P	FFD4519	FFD451R	FFD451S
FF0451Z FF04520	OURFOR* OURFOR*	FF0451V FF0P000×	FF0451W	FF0451X	FF0451Y	FF0P000×
FF04521	OURFORX	FF0P000×				
FF04522	DURFORX	FF0P000×	•			
FFD4523 FFD4524	OURFOR* OURFOR*	FORTYPX	FF0P000×			
FFD4525	OURFORX	FORTYP* FORTYP*	FFOPOOO× FFOPOOO×			
FFD4526	OURFORX	FORTYPE	FF0P000×			
FF04529	OURFORX	FF0P000×				
FF04530 FF04531	OURFOR* OURFOR*	FF0P000× FF0P000×				
FF04532	OURFORX	FF0P000×				
FF04533	OURFORX	FF0P000×				
FF04534 FF04535	OURFORX	FF0P000×				
FF04536	OURFOR* OURFOR*	FF0P000× FF0P000×				
FF04537	OURFOR *	FF0P000×				
FF04538	OURFORX	FF0P000×				
FF04539 FF0453A	OURFOR* OURFOR*	FFOPCOOX FFOPOOOX		•		
FF04540	OURFORX	FF0P000×				
FF04541	OURFOR *	FF0P000×				
FF04550 FF04551	OURFOR* OURFOR*	FF0P000× FF0P000×				
FF04552	OURFORX	FF0P000x				
FF04553	OURFOR* "	FF0P000×				
FF04554	OURFORX	FF0P000×				
FF04555 FF04556	OURFOR* OURFOR*	FF0P000× FF0P000×				
FF04557	OURFORX	FF0P000×				
FF04558	OURFORX	FF0P000×				
FF04559 FFD455D	OURFORK	FF0P000×	EEADAAA			
FFD455E	OURFOR* OURFOR*	FORTYPX FORTYPX	FF0P000× FF0P000×			
FFD455F	OURFORX	FORTYPX	FF0P000×			
FFD455G	OURFORX	FORTYPX	FF0P000×			
FFD455I	OURFORX	FORTYPX	FF0P000×			

^{*} Source file supplied with USE file type only

Table G-7. FORTRAN Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT FI	LES(× - FIL	ES NAMED I	N INCLUDE ST	TATEMENTS)	
FFD455J	DURFOR ×	FORTYPX	FF0P000×			
FFD455K	OURFORX	FORTYPX	FFOPODOX			
FFD455L	OURFORX	FORTYPX	FFOPODOX			
FF04560	OURFORX	FF0P000×				
FF04562	OURFORX	FF0P000×				
FF04563	OURFORX	FF0P000×				
FFD4566 \$ FFD4567	OURFORX	FORTYPX	FF0P000×			
FFD4568	OURFOR*	FORTYP* FORTYP*	FFOPODOX			
FFD4569	OURFORX	FORTYPE	FF0P000× FF0P000×			
FF04600	OURFORX	FFOPOOOX	Fruruuux			
FF04601	OURFORX	FF0P000×				
FF04602	OURFORX	FF0P000×				
FFD4603	OURFORX	FORTYPX	FF0P000×			
FFD4604	OURFORX	FORTYPX	FF0P000×			
FFD4605 FFD4606	OURFORX	FORTYPX	FF0P000×			
FFD4607	OURFORX	FORTYPX	FFOPDOOX			
FFD4608	OURFOR* OURFOR*	FORTYPX FORTYPX	FFOPOOOX			
FFD4609	OURFORX	FORTYPX	FF0P000× FF0P000×			
FFD460A	OURFORX	FORTYPX	FFOPOOOX			
FFD460B	OURFORX	FORTYPE	FFOPOOOX			
	OURFORX	FF0P000×	110,000			
FF05200	OURFORX	FF0P000×				
FF05201	OURFORX	FF0P000×				
FF05202	OURFORX	FF0P000×				
FF05203 FF05204	OURFORX	FF0P000×				
	OURFOR*	FF0P000×				
	OURFORX	FF0P000x FF0P000x				
	DURFOR	FFOPODOX				
	DURFORX	FF0P000×				
	DURFORX	FF0P000×				
FF0520A	OURFORX	FFOPDOOX				
FFD520C	OURFORX	FORTYPX	FF0P000×			
FFD520D	OURFORX	FORTYPX	FF0P000×			
	OURFORX	FORTYPX	FFOPOOOX			
	OURFOR* OURFOR*	FORTYPX	FFOPOOOX			
	OURFORX	FORTYPX FORTYPX	FFOPOOOX			
	OURFORX	FORTYPX	FF0P000× FF0P000×			
	OURFORX	FORTYPE	FFOPODOX			
	OURFORX	FFOPOOOX	1101000			
	OURFORX	FFOPDOOX				
	OURFORX	FF0P000×				
	OURFORX	FF0P000×				
	OURFORX	FF0P000×				
	OURFOR* Ourfor*	FFOPOOOX	75000000			
	OURFOR*	FORTYPX FORTYPX	FF0P000× FF0P000×			
	OURFORX	FORTYPX	FF0P000×			
	OURFORX	FORTYPE	FFOPOOOX			
	OURFORX	FORTYPX	FFOPOOOX			
FFD521D	OURFORX	FORTYPX	FFOPOOOX			
	OURFORX	FORTYPX	FF0P000×			
	OURFORX	FORTYPX	FF0P000×			
	DURFORX	FFOPOODX				
	OURFORX	FF0P000x				
	OURFOR× OURFOR×	FF0P000× FF0P000×				
	DURFOR*		PEARRAS.	FEREYAS	PPAPAAA	
	OURFOR*		FF05301 FF05306	FF05302 FF05307	FF05303	FF0P000×
	DURFORX		FF05401	FF05402	FF0P000* FF05403	FF05404

^{*} Source file supplied with USE file type only

Table G-7. FORTRAN Test Programs and Source Code Files (Continued)

PROGRAM	SUPPORT_FI	LES(× - FIL	ES NAMED IN	INCLUDE ST	ATEMENTS)	
FF05405	FF05406	FF05407	FF0P000×			
FF05505	OURFORX	FF05501	FF05502	FF05503	FF05504	FF0P000×
FF0550C	OURFORX	FF05506	FF05507	FF05508	FF05509	FF0550A
	FF0550B	FF0P000×				
FF0550D	OURFOR×	FF0P000×				
FF0550E	OURFOR *	FF0P000×				
FF0550F	OURFOR×	FF0P000×				
FF06001	OURFOR *	FF0P000×				
FF06009	DURFOR *	FF0P000×				
FF06010	·OURFOR×	FF0P000×				
FF06011	OURFOR *	FF0P000×				
FF06022	OURFOR×	FF06013	FF06014	FF06015	FF06016	FF06017
	FF06018	FF06019	FF0P000×			
FF06033	OURFORX	FF06023	FF06024	FF06025	FF06026	FF06027
	FF06028	FF06029	FF06030	FF06031	FF06032	FF0P000×
FF06053	OURFORX	FF06043	FF06044	FF06045	FF06046	FF06047
	FF06048	FF06049	FF06050	FF06051	FF06052	FF0P000×
FF06069	DURFOR ×	FF06060	FF06061	FF06062	FF06063	FF06064
	FF06065	FF06066	FF06067	FF06068	FF0P000×	
FF06079	OURFOR×	FF06070	FF06071	FF06072	FF06073	FF06074
	FF06075	FF06076	FF06077	FF06078	FF0P000×	
FF06101	OURFOR×	FF06100	FF0P000×			
FF06109	OURFOR*	FF06108	FFOPOOO ×			
FF06110	OURFOR*	FF06108	FF0P000×			
FF06111	OURFOR*	FF06108	FF0P000×			
FF06122	OURFOR*	FF06112	FF06113	FF06114	FF06115	FF06116
	FF06117	FF06118	FF06119	FF0P000×		
FF06140	OURFORX	FF06132	FF06133	FF06134	FF06135	FF06136
	FF06137	FF06138	FF06139	FF0P000×		
FF06150	OURFORX	FF06142	FF06143	FF06144	FF06145	FF06146
	FF06147	FF06148	FF06149	FF0P000×		
FF06160	OURFORX	FF06152	FF06153	FF06154	FF06155	FF06156
	FF06157	FF06158	FF06159	FF0P000×		
FF06170	OURFORX	FF06162	FF06163	FF06164	FF06165	FF06166
	FF06167	FF06168	FF06169	FF0P000×		550/17/
FF06180	OURFORX	FF06172	FF06173	FF06174	FF06175	FF06176
FF0/100	FF06177	FF06178	FF06179	FF0P000×		FF9/19/
FF06190	OURFORX	FF06182	FF06183	FF06184	FF06185	FF06186
FF0/007	FF06187	FF06188	FF06189	FF0P000×		
FF06803	OURFORX	FF06802	FFOPOOOX			
FF06807	OURFORX	FF06806	FF0P000×			
FF06817	OURFORX	FF06816	FF0P000×			
FF06819	OURFORX	FF06818	FF0P000×			
FF06821 FF0D720	OURFOR* OURFOR*	FF06820	FF0P000×			
FFOD721	DURFORX					
FFDD722	OURFORX	FORTYPX				
FFDD723	OURFORX	FORTYPE				
FFDD724						
FFDD725	OURFOR* OURFOR*	FORTYP* FORTYP*				
FFOD727	OURFORX	PURITE				
FFOD728	OURFORX					
FFDE220	OURFORX	FF0P000×	FFDE000×	FFDE201	FFDE202	FFDE203
FFULLEU	FFDE204	FFDE205	FFDE206	FFDE207	FFDE208	FFDE209
	FFDE20A	FFDE211	FFDE212	FFDE213	FFDE214	FFDE215
	FFDE216		LLAPETE	LIDEETS	LLDPCTA	LIDEETS
FFDE250	OURFORX	FF0P000×	FFDE000×	FFDE231	FFDE232	FFDE233
ITDLLJU	FFDE234	FFDE235	FFDE236	FFDE237	FFDE238	FFDE239
	FFDE23A	FFDE241	FFDE242	FFDE243	FFDE244	FFDE245
	FFDE246				112677	* 1 05673
FFDE420	OURFORX	FF0P000×	FFDE000×	FFDE401	FFDE402	FFDE403
DLTLV	FFDE404	FFDE405	FFDE406	FFDE407	FFDE408	FFDE409

Table G-7. FORTRAN Test Programs and Source Code Files (Concluded)

PROGRAM	SUPPORT F	ILES(X - FI	LES NAMED II	N INCLUDE S	(ATEMENTS)	
	FFDE40A FFDE416	FFDE411	FFDE412	FFDE413	FFDE414	FFDE415
FFDE450	DURFORX	FF0P000×	FFDE000×	FFDE431	FFDE432	FFDE433
	FFDE434	FFDE435	FFDE436	FFDE437	FFDE438	FFDE439
	FFDE43A	FFDE441	FFDE442	FFDE443	FFDE444	FFDE445
	FFDE446					
FFDF000	OURFORX	FF0P000×				
FFDF001	DURFOR *	FF0P000×				
FFDF002	OURFORX	FF0P000×				
FFDF003	OURFOR*	FF9P000×				
FFDF004	OURFORX	FF0P000×				
FFDF005	OURFORX	FF0P000×	2000000			
FGD0001	OURFORX	FG0P000×	FGD0000×	F00000		
FGD000E F000104	DURFORX	FGOPOOOX	FGD0000×	FGD000D	FOODOOX	
F000104	OURFOR* OURFOR*	F000002× F000202	F000102 F000203	F000103 F00P000*	F00P000*	
F000204	OURFORX	F000202 F00P000*	PUUU2U3	PUUPUUUX		
F000305	OURFORX	FOOPOOOX				
F000310	OURFORX	FOOPOOOX				
F000313	OURFORX	F000311	F000312	FOOPOOOX		
F000316	OURFORX	F000314	F000315	FOOPOOOX		
F000319	OURFORX	F000317	F000318	FOOPOOOX		
F000322	OURFOR *	F000320	F000321	FOOPOOO×		
F000325	OURFORX	F000323	F000324	FOOPOOO*		
F000328	OURFORX	F000326	FD00327	F00P000×		
F000331	OURFORX	F000329	F000330	F00P000×		
F000334	OURFOR*	F000332	F000333	FOOPOOOX		
F000337	OURFORX	F000335	F000336	FOOPOOOX		
F000340	OURFORX	F000338	F000339	FOOPOOOX		
F000343	OURFORX	F000341	F000342	FOOPOOO*		
F0D0346 F000350	OURFOR* Durfor*	F00P000× F000347	F0D0344 F000348	F0D0345 F000349	FOOPOOO*	
F000353	DURFORX	F000347	F000351	F000352	FOOPOOOX	
F000356	OURFORX	F000354	F000355	F000332	FUUFUUX	
F000359	OURFORX	F000357	F000358	FOOPOOOX		
F000362	DURFORX	F000360	F000361	FOOPOODX		
FOD036Z	OURFORX					
F000391	OURFORX	F000390	F00P000×			
F000404	OURFORX	F000402	F000403	F00P000×		
F000500	OURFORX	F00P000×				
F000504	OURFORX	F000502	F000503	FOOPOOOX		
F000509	OURFORX	F000507	F000508	FOOPOOOX		
F000514	OURFORX	F000512	F000513	FOOPOOOX	•	
F000519 F000604	OURFORX OURFORX	F000517 F000602	F000518 F000603	FOOPOOOX FOOPOOOX		
F000605	DURFORX	F000002	7000003	FOUFOUX		
FD00606	DURFORX	FOOPOOOX				
F000607	OURFORX	FOOPOOOX				
F000704	OURFORX	F000702	F000703	FOOPOOO×		
F000705	OURFORX	FOOPOOOX	, , , , , , , , , , , , , , , , , , , ,	, 00. 000		
F000708	OURFORX	F000706	F000707	FO0P000×		
F000711	OURFORX	F000709	F000710	FOOPOOOX		
F000713	OURFOR *	FOOPOOOX				
F000714	OURFORX	F00P000×				
F000715	OURFORX	FOOPOOOX				
F000716	OURFORX	FOOPOOOX				
F000717	OURFORX	FOOPOOOX				
F000718	OURFORX	F00P000×	E000720	EDODOOO		
F000721	OURFORX	F000719	F000720	FD0P000*		

Table G-8 Ada Type A Test Program Input/Output Files

PROGRAM	INPUT/OUTPUT FILES					
AFDE220	OFDE201 OFDE206 OFDE211 OFDE216	OFDE202 OFDE207 OFDE212	OFDE203 OFDE208 OFDE213	OFDE204 OFDE209 OFDE214	OFDE205 OFDE20A OFDE215	
AFDE250	IFDE231 IFDE236 IFDE241 IFDE246	IFDE232 IFDE237 IFDE242	IFDE233 IFDE238 IFDE243	IFDE234 IFDE239 IFDE244	IFDE235 IFDE23A IFDE245	
AFDE420	OFDE401 OFDE406 OFDE411 OFDE416	OFDE402 OFDE407 OFDE412	OFDE403 OFDE408 OFDE413	OFDE404 OFDE409 OFDE414	OFDE405 OFDE40A OFDE415	
AFDE450	IFDE431 IFDE436 IFDE441 IFDE446	IFDE432 IFDE437 IFDE442	IFDE433 IFDE438 IFDE443	IFDE434 IFDE439 IFDE444	IFDE435 IFDE43A IFDE445	
ALDE2C1	OLE2001					
ALDE2C2	OLE2001 OLE2006	OLE2002 OLE2007	OLE2003 OLE2008	OLE2004 OLE2009	OLE2005 OLE2010	
ALDE2C3	OLE2001					
ALDE2C4	OLE2001 OLE2006	OLE2002 OLE2007	OLE2003 OLE2008	OLE2004 OLE2009	OLE2005 OLE2010	
ALDE2C5	ILE2001					
ALDE2C6	ILE2001 ILE2006	ILE2002 ILE2007	ILE2003 ILE2008	ILE2004 ILE2009	ILE2005 ILE2010	
ALDE2C7	ILE2001				,	
ALDE2C8	ILE2001 ILE2006	ILE2002 ILE2007	ILE2003 ILE2008	ILE2004 ILE2009	ILE2005 ILE2010	
ALDE4C1	OLE4001					
ALDE4C2	OLE4001 OLE4006	OLE4002 OLE4007	OLE4003 OLE4008	OLE4004 OLE4009	OLE4005 OLE4010	
ALDE4C3	OLE4001				•	
ALDE4C4	OLE4001 OLE4006	OLE4002 OLE4007	OLE4003 OLE4008	OLE4004 OLE4009	OLE4005 OLE4010	
ALDE4C5	ILE4001					
ALDE4C6	ILE4001 ILE4006	ILE4002 ILE4007	ILE4003 ILE4008	ILE4004 ILE4009	ILE4005 ILE4010	
ALDE4C7	ILE4001					
ALDE4C8	ILE4001 ILE4006	ILE4002 ILE4007	ILE4003 ILE4008	ILE4004 ILE4009	ILE4005 ILE4010	